



CALL FOR PAPERS

#GPD2017

**ALL EYES
ON GLASS.**

**GLASS PERFORMANCE DAYS 2017
JUNE 28 - 30 , 2017. TAMPERE, FINLAND**

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GPB
25
YEARS

THE 1992-2017 QUARTER CENTURY PERFORMANCE RECORD



Dear Colleagues,

Time again to issue a Call for Papers – to another Glass Performance Days event and one that will out-perform its predecessors. Again we introduce new thoughts and concepts, streamline our arrangements and sharpen our focus. Growth – Knowledge – New Generation is our theme for 2017.

In issuing this summons, it strikes me how far we have come together in developing our industry. Previous participants and return visitors have all experienced the spirit of development that we find so important. We call the Conference Glass Performance Days and that reflects both the contents and the Conference itself. Performance is the word. It is very important to remember also that we have done this together in sharing the vision that we can promote our industry in a joint effort for the good of all users of glass all over the world. We surely would not be where we are today if we had not changed with the times. Our priorities have changed over the 25-year span of the Conference and to our credit we can say – so have we! By this I mean all of us, participants, lecturers, industries, organizers. We are proud to be in a role as catalyst for other similar conferences in different parts of the world.

Some of our issues are long-standing, others come and go. Some may be perceived to be limited to certain regions, others apply everywhere. The overall picture is very dynamic. An example: In Arctic glass construction one might think that keeping heat out would not be the problem, rather perhaps to keep it in. But considering the low angle in which the sun hits us up North we find that we share the heat-load issues with more southern locations. Similarities apply to many other special aspects of glass and it is therefore that we gain so much from the information exchange we conduct.

For GPD 2017 we look forward to continuing our improvements of Conference efficiency and networking. We will continue the hands-on factory visit practices we have and of course enjoy the Nordic Midsummer time when the Sun never sets. A day-lighting phenomenon as good as any and one made for efficient networking.

Finally, in wishing you welcome to this Anniversary Conference, I want to address a special appeal to the young professionals of our business – the New Generation: Come, see and experience the atmosphere that has promoted the past 25 years of our international business – the next 25 years are yours!

Welcome to Tampere in June 2017

Jorma Vitkala
Chairman of the Organizing Committee





CONFERENCE THEME:

GROWTH. KNOWLEDGE. NEW GENERATION.

Submit Your Abstract for GPD Finland by

OCTOBER 31, 2016

First selection of speakers will be done during **NOVEMBER 2016.**

Second deadline for abstracts **JANUARY 20, 2017.**

Second selection of speakers **FEBRUARY, 2017.**

SUBMIT YOUR ABSTRACT FOR GPD FINLAND ONLINE

You can now submit your abstract(s) at

www.gpd.fi

For more information on speaker fees and how to submit your abstract, please see next page.

SPEAKERS INSTRUCTIONS AND FEES

Please take notice of the following issues, before you prepare the material you wish to present at any of the GPD conferences. When preparing a paper, a workshop or a case study please remember that they are NOT sales pitches and as such should NOT be brand focused. Papers must be noncommercial, industrial, industrialscientific or fully scientific.

Program committee recommendations:

- The abstract, paper and presentation should have a technical and design focus, and may include as much testing, hypothetical and final results as possible.
- Show process design from initial selection through completion.
- Show the material in its larger context with e.g. buildings, façade, design and/or implementation when possible.

BEFORE BEGINNING YOUR ABSTRACT SUBMISSION, PLEASE PREPARE THE FOLLOWING:

1. The abstract of the paper(s) you are submitting (max. 200 words / abstract, 10 words / title)
2. The personal introduction of the speaker (max. 70 words / introduction)
3. Speaker's photo (Recommended size is 100 x 100 pixels in the following formats .JPG .GIF or .PNG)
4. VAT number for companies in the EU.

If you want to read more about how to create the material you need to submit please visit our [Speaker Guidelines](#) page.

The organizers have the right to publish the abstracts together with the speaker bio and photo for different purposes of the conference. The organizing committee reserves all rights.

SPEAKING FEES:

EUR 950 + VAT 0%,
IF PAPER IS SUBMITTED BY OCTOBER 31, 2016

EUR 1150 + VAT 0%
FOR SUBMISSIONS AFTER OCTOBER 31, 2016

The speaker fee includes:

- One person (the speaker) admission to all conference sessions
- One presentation in the conference (Oral or Poster)
- Conference bag including proceedings material
- Entrance to the glass expo
- Daily lunches and coffees
- Transportation to conference and evening events (only from recommended hotels)
- Admission to networking activities **(excluding Conference Dinner, an additional fee is charged for this)**

ONLINE SUBMISSION OF ABSTRACTS:

Go to the [Abstracts Submission Form](#), fill in all the required fields and complete the payment. The program Committee will finalize the program based on the received abstracts.

REGISTRATION SERVICE FEE:

A **EUR 35** + VAT 0% will be charged for each speaker after abstract has been accepted.

ACCEPTED PAYMENT METHODS:

- Credit card: Visa, MasterCard, American Express – for each credit card payment a processing fee will be charged
- Invoice – a **EUR 50** + VAT 0% fee will be charged for each payment made by invoice

Please note!

- All companies registered in Finland will be charged 24% VAT.
- All companies registered in the EU that do not provide the correct VAT number will also be charged 24% VAT.
- All companies registered in the EU that provide the correct VAT number will be charged 0% VAT.
- All companies outside the EU will be charged 0% VAT

SCIENTIFIC PEER-REVIEW FOR ACADEMIC PAPERS

Academics or other researchers that wish to submit their paper for scientific peer-review are now offered this opportunity at GPD 2017.

Benefit of this peer-review is that the scientific quality of your paper is guaranteed and that your paper is recognized as such at your home institution and within the scientific community.

In case you wish to take advantage of this peer-review, please tick the box "I would like to submit my paper for scientific peer-review" when submitting your abstract.

Your paper will then be taken into the review process and you will be informed about the result as soon as possible. You may be requested to make improvements in an iterative process that can be minor or major depending on the quality of the paper. The paper might also be rejected from the peer-review process if it does not meet the scientific quality required.

In case your paper is approved by the peer-review process it will be distinguished as such in the conference proceedings book. In the event your paper may not be approved by the peer-review process it will still be eligible for publication in the conference proceedings, though without special recognition.

GLASS AND SUSTAINABILITY IN BUILDINGS

- Life cycle analysis (LCA) and Environmental Product Declaration (EPD)
- Building performance evaluation (BPE)
 - Recycling
 - Sustainability
 - Energy performance in buildings –codes, standards, ratings, calculations and modelling etc.
 - Energy management
 - Footprints e.g. carbon footprint
- Vacuum insulating glass
- Glass Selection
- Façade Integrated Photovoltaic case studies
- BIPV case studies – to show importance in architecture e.g. as façade elements
 - Variable light and energy transmittance

SMART GLAZING

- Smart energy efficient facades
- Intelligent facades
- Switchable glazing
- Media facades
- Thermochromics, Gaschromic, Electrochromic
- Case studies
- Installations
- Multi-functional glass applications
- Glass for lighting applications
- Advances in large area electrochromic (EC) and active glazing

FACADE ENGINEERING

- Design and development
- Installation
- Performance
- Maintenance
- Innovative solutions for Glass Façades
- Protective glazing – bomb blast, fire resistance
- Safety & Security
- Acoustics - sound insulation

COMPLEX GEOMETRY

- Hot bend
- Cold bend
- Aesthetics
- Architectural bent glass

GLASS IN ARCHITECTURE

ARCHITECTURAL CHALLENGES & SOLUTIONS

- New frame materials e.g. composite frames
- Extra-large size glazing (over 3.20 x 6 meters)
- New technologies & solutions
- Integrated system solutions
- Tempered and laminated glass applications, properties and performances
- Free form architecture
- Glass design and insulation
- Designs and technologies that pushes the envelope of materials, design and construction
- Innovative use of safety glass
- Bonding and Point Fixing of Glass

GLASS IN INTERIOR DESIGN (DECORATIVE & STRUCTURAL)

- Glass walls and stairs partitions
- Decorative glass walls
- Switchable glazing
- Shower enclosures for thin glass
- Lightweight glazing –laminated
- thin glass, tempered laminated glass
- Balustrades

ARCHITECT FORUM

- Architectural design and glass
- Future visions and glass
- Climate design and glass
- Structural design and glass

STRUCTURAL GLASS APPLICATIONS

- Glass fins, columns, walls, roofs, floors
- Norms – of how glass is used in different regions of the world
- Glass strength an international overview of design criteria
- Glass in structural engineering and applications
- Static calculation of curved insulating glass units
- Design concept case studies – structural glazing / captive systems / double skin / etc.
- New or state-of-the art Façade Assembly technology
- Building project supply chain management for optimal Quality, Productivity and / or Cost effectiveness

RESEARCH & DEVELOPMENT

- Experimental research on glass and glass components
- Analytical and numerical modelling of glass and glass components
- Innovative structural glass solutions
- Multifunctional and adaptive glass components
- Thin and ultrathin glasses
- Structural glass design philosophy and safety
- Glass strength and fracture mechanics
- Stability of structural glass components
- Post-fracture performance of glass components and structures
- Blast response of glass components and structures
- Laminated glass and composite glass components
- Structural glass connections
- Glass forensics and fractography
- Projects and case studies



COATINGS TECHNOLOGY AND APPLICATIONS

- New coatings and surface treatments
- New coating applications
- Single SKU (Stock-Keeping Unit)
 - single product for annealed and tempered applications
- Developments in low-emissivity and solar control coatings
- Temperable and bendable coatings
- New Developments in Automotive Solar Control Glazing
- Transparent Conductors for PV, EC and other industries
- Enhanced Mirror and AR Coatings for PV & Solar Thermal
- Metrology and process control for improved coating performance
- Target technology for new materials and cost reduction
- Improved energy efficiency of coating processes

IGU & WINDOW TECHNOLOGY

- New solutions for renovation of existing buildings
 - Shield program from USA
- Warn edge spacers
- Standards in different locations/areas
- Review of EN-1279
- Multifunctional triple glazing units in theory and practice
- Solar protection with insulating glass units
- Photovoltaic in insulating glass units
- Energy saving in insulating glass units, windows – including case studies
- New trends in vacuum technology

- Bonding of IGU in window designs
- Material compatibility in glazing installations
- New developments and product control in machinery as well as equipment for IG-production

PRODUCT & PROCESS CASE STUDIES

- Factory layouts
- Problems and solutions by example
- Cost saving in production
- Novelty products / processes
- Production efficiency
- Production processes for different products
- Successful value chain integration

LAMINATED GLASS

- New Laminating Processes / Technologies
- New Interlayer Materials for Laminated Safety Glass
- Guidelines for Interlayer Selection for Laminated Glass
- Lamination of Tempered and High Performance Glass
- Acoustic Performance of Laminated Glass Configurations
- Weight Reduction with Laminated Safety Glass
- Laminated Glass in Decorative and Interior Applications
- Laminated Glass and Fading Protection
- Durability of Laminated Safety Glass
- Interlayer compatibility with Glazing Materials

TEMPERING / PRE-PROCESSING

- New tempering and processing technologies
- Chemical tempering
- Challenges in tempering of very large sheets.
- Tempering & bending challenges
- Tempered glass properties - theory and practice
- Standards & regulations
- How to be sure the glass in building really fills the norms
- New Super Low-E glasses
 - effect in tempering
- Thin and thick glass tempering
- Special requirements for tempering for Solar applications.
- Factors affecting the longevity of tempered glass

QUALITY MANAGEMENT

- National and international standards e.g. comparison between standards
- Process & product -quality control
- Lamination of annealed glass
- Lamination of tempered glass
- Roller wave, anisotropy

SPECIALTY GLASS

USE OF GLASS IN TRANSPORTATION

- Slow moving vehicles e.g. tractors, forklifts
- Marine vehicles
- Passenger vehicles (land and air)
- LED's in vehicles

ELECTRONICS AND GLASS

- Glass for electronic applications
- Ultra-thin glass for communication devices
- Touch screens
- Transparent display units



MARKET TRENDS AND FUTURE OPPORTUNITIES

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- LCD glass (extra thin glass) and conventional float glass
- Products trends e.g. product design, packaging
- Process trends e.g. management styles etc.
- Local vs. global Business and marketing trends
- Market trends
- Internet of things (IOT)

WORKSHOP 27-28 JUNE 2017

Our 4-8 -hour workshops are intensive and focus on techniques and skills in a particular field (e.g. preprocessing, IGU, tempering, solar glass, structural glass facades, etc). The main purpose is communication and exchange of information among moderately small groups e.g. the number of participants for practical workshops will be limited from 5-15 persons and 20-50 persons for theoretical workshops.

Organizers of workshops have the freedom of choosing a topic, based on the conference overall theme, and can decide on how they would like to run the workshop. They also have the right to handpick attendees from the list of those registered for their workshop.

WORKSHOP PROPOSAL SUBMISSION

If you are interested in organizing a workshop, please send us a proposal. This proposal should summarize the content of your workshop in 150 to 200 words. Once we receive your proposal, it will be reviewed by the GPD program committee and after that, you will be notified if it is accepted or not.

For more information about workshops, please go to our [workshop guidelines](#)

To fill in and submit a workshop proposal form, please go to [GPD 2017 workshops submission form](#)

Please note that GPD does not charge any fees for organizing workshops.



GPD CONFERENCE EXHIBITION

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The GPD Finland conference and workshops are for educational purposes, whereas the GPD Exhibition is designed to cater for the commercial needs of our guests. Our strategically setup exhibition aims at increasing your business prospects with exhibitors from all over the world. Coffee and lunch will be served in the same location.

The Expo is opened only to conference participants.

As an exhibitor you will be able to:

- Network and foster partnerships with like-minded professionals
- Promote directly your company and products to a targeted audience of high level decisionmakers.
- Enhance your organization's profile
- Establish new contacts and lay foundations for future business

Booths available starting from 9m² and above.

To ensure the best positions for your booth,
Please contact

Ms. Heli Huhtala
info@meetingsmill.fi
+358 400 737 420

**RESERVE YOUR
BOOTH NOW!**

SOCIAL PROGRAM

NETWORKING ACTIVITIES

GPD is popularly known for organizing evening events that make networking and getting new contacts very easy. Nevertheless, the GPD concept is continuously being developing to make interaction during the conference itself even more effective. Alongside this, participants will experience exceptional Finnish cookery and revels – all under Finnish natural phenomena, the Midnight Sun.

EVENING ACTIVITIES:

- Get Together Party, Conference Dinner, Legendary Farewell Party

DAY TIME ACTIVITIES:

- 1 to1 meetings during lunch and coffee breaks, which you can book in advance. (More information at www.gpd.fi)
- Factory Tours will be arranged to Lasiluri and Rakla. Participants will get the opportunity to see how these factories work and possibly meet with some of their suppliers. More info to be released later.

PARTICIPANT AND ACCOMPANYING GUESTS LEISURE ACTIVITIES

GPD participants and their accompanying guests will have the opportunity of participating in a wide selection interesting leisure activities. Designed to suit different tastes, the activities vary from cultural to sporty ones.

In addition to the variety of leisure activities the GPD organizing committee plans to organize, we still recommend visiting the Visit Tampere Tourist Information website at www.visittampere.fi for more options.

EXCURSIONS TO THE FOLLOWING AREAS:

- Lapland
- Estonia
- St. Petersburg



THE LAND OF THE MIDNIGHT SUN

YEAR 2017 - FINLAND CELEBRATES 100 YEARS OF INDEPENDENCE

GENERAL INFO

Finland is a republic which became a member of the European Union in 1995. Finland is the most sparsely populated country in the European Union, with only 16 inhabitants per km². Its population is 5.3 million, with 561 000 residents living in Helsinki, the capital. Tampere the venue of GPD, has a population of 223,292, growing to 313,058 people in the urban area. It is the most populous Finland city in any of the Nordic countries and the second-largest urban area after Helsinki and Espoo.

Finland is the sixth largest country in Europe. Finland is an advanced industrial economy: the metal, engineering and electronics industries account for about 60% of export revenues, the forest products industry for about 20%.

Finland is situated in northern Europe and borders with Sweden, Norway, Russia and Estonia.

NATURE

Finland is affectionately referred to as the Land of a Thousand Lakes, but that number doesn't even come close. There are over 180,000 lakes and a total of 179,888 Finnish islands to explore within the territory of Finland – the most of any country in the world.

CLIMATE

One notable effect of Finland's northerly position on the globe is that the four seasons of the year are clearly distinct from one another. In spite of its pretty dark and gloomy winters, where temperatures fall to as low as 25 degrees Celsius, the country definitely lives up to its nickname as the Land of the Midnight Sun. During the months of June and July the temperature occasionally rises to almost 30 degrees and the sun never drops below the horizon.

FUN FACTS

Finland has some of the world's strangest sports. Strangest of all is the Wife Carrying World Championship, with an extreme obstacle course. Couples from all over the world traveling to the country to take part.

Finland also has some of the world's best "Freedom to Roam" opportunities. This means that everyone can pitch a tent, forage for wild lingonberries or catch zanders in the lakes for free and without worry.

Do not get caught zooming through Finland! The cost of traffic and speed violations is calculated by the offending driver's annual income. One mega rich speed demon was once fined over 200,000 dollars for a single speeding offense.

Finland won the world's best pizza contest, placing ahead of Italy, with a pizza playfully titled the "Pizza Berlusconi". Its signature ingredient? Smoked reindeer. This was after former Italian Prime Minister, Silvio Berlusconi, ruffled a few feathers in 2005 when he remarked that Parma ham was completely superior to the Finns' smoked reindeer. This comment was not taken lightly. Finns, being rather touchy about their favorite animal, sprung to its defense. Read more <http://www.helsinki.fi/2012/04/worldsbestpizza.html>

To read more about Finland, visit WWW.FINLAND.FI for more information.

ALL EYES ON GPD PUB

NUMBER 1 AFTER DINNER MEETING PLACE FOR THE GLASSTEC WEEK.



GPD pub is an excellent way to meet your clients, suppliers, GPD speakers, supporters, structural engineers, architects and academic professionals from all over the world.

Welcome to network in a relaxed atmosphere on GPD Pub in the heart of Altstadt at Bolkerstrasse 55, Düsseldorf.



More information: www.gpd.fi





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The conference is supported by the following trade fairs and associations:



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