

ALL EYES ON SMARTER GLASS
GLASS PERFORMANCE DAYS 2019
JUNE 26-28, 2019, TAMPERE, FINLAND

FINAL PROGRAM

Total 242 presentations

WORKSHOPS JUNE 25-26
CONFERENCE SESSIONS, EXHIBITION
AND STEP CHANGE JUNE 26-28

GPD.FI
#GPD2019

GPD 2019 WORKSHOPS

GPD workshops are 4–8 hour intensive courses with each focusing on techniques and skills in a particular field (e.g. pre-processing, tempering, structural glass facades, etc). The main emphasis is on interaction and exchange of information among small groups e.g. the number of participants for practical workshops will be limited to 5–15 persons and 20–50 persons for theoretical workshops. For the full details please check the [GPD](#) website.

Price: **EUR 150** + VAT 24% / workshop

Please note that workshop organisers have a right to accept or reject participants.

WORKSHOPS ON TUE 25TH OF JUNE

- 8:45–17:00 **High Rise – Northern Exposure (in Helsinki)**
9:00–17:00 **Improving tempered glass quality: challenges and solutions**, ANTTI ARONEN, SAMI KELIN, GLASTON.
- 9:00–17:00 **Glass cutting and grinding**, PETER POKOERN, BOHLE AG, MICHAEL EMONDS, BASF/CHEMETALL
- 9:00–13:00 **An introduction to the vacuum insulated glazing technology**, CENK KOCER, UNIVERSITY OF SYDNEY
- 14:00–18:00 **Advanced instruction to the vacuum insulated glazing**, CENK KOCER, UNIVERSITY OF SYDNEY
- 9:00–15:00 **Thin Glass**, JÜRGEN NEUGEBAUER AND CHRISTIAN LOUTER
- 9:00–17:00 **The key to innovate organisational culture and product creation – Lean Service Creation Crash Course**, MIRKKA LÄNSISALO, FUTURICE
- 9:00–17:00 **Latest developments in laminating technologies**
- 9:00–17:00 **Demystifying Internet of Things (IoT)**
- 9:00–17:00 **The World of Glass Coatings**, BERNARD SAVAETE, BJS. DIFFERENCES

WORKSHOPS ON WED 26TH OF JUNE

- 9:00–15:00 **Float glass processing: Washing and anti-corrosion treatment**, MICHAEL EMONDS, BASF/CHEMETALL, REINHOLD SENFT, GRAFOTEC SPRAY SYSTEMS GMBH/AUGSBURG
- 9:00–13:00 **Designing facades for near zero energy buildings**, OSKAR STORM, BUILDING GLASS POLSKA
- 9:00–11:30 **Structural design of laminated glass including the shear coupling effect through the polymeric interlayer: a comparison of different calculation approaches**, MIRIAM SCHUSTER, TU DARMSTADT, MICHAEL KRAUS, UNIVERSITY OF GERMAN ARMED FORCES, MUNICH, MARTIN BOTZ, UNIVERSITY OF GERMAN ARMED FORCES, MUNICH
- 9:00–13:00 **Transportation of float glass by inloader trailers**, ALBERT BALKE, FAYMONVILLE DISTRIBUTION AG
- 9:00–13:00 **State of the art calculation methods for silicone structural glazing joint dimensioning**, VALERIE HAYEZ, MICHAEL DRASS, TECHNICAL UNIVERSITY DARMSTADT
- 9:00–13:00 **Designing Glass for North America: a standardization overview**, LINGNELL, A. WILLIAM, SCHIMMELPENNINGH, JULIA, DR. STEPHEN MORSE, JOKHU-SOWELL, URMILLA
- 9:00–13:00 **Water-glass facades: Construction aspects, structural and energy performance of incorporated fluid-glass hybrids**, MATYAS GUTAI, UNIVERSITY OF LOUGHBOROUGH, SCHOOL OF ARCHITECTURE, BUILDING AND CIVIL ENGINEERING
- 9:00–13:00 **All-glass constructions: Requirements for Design & Engineering**, CHRISTOPH BAUCHINGER, DR. MARTIEN TEICH
- 9:00–15:00 **Glass and Coatings**, DR. KOICHI SUZUKI, PROF. DR. GUENTER BRAUER, PROF. DR. SENER OKTIK, STEFAN GOEBEL, MARCUS KLEIN, DR. JOHANA KUNCOVA-KALLIO

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GPD FINLAND 2019 OPENING CEREMONY HIGHLIGHTS

JUNE 26, 16:30 – Tampere Exhibition and Sports Centre (Pirkkahalli)

Opening Speakers:

Jorma Vitkala
Chairman, GPD

Arto Metsänen
CEO & President, Glaston

Mr. Stefan Blach
Partner, Studio Libeskind

Mike Pilliod
Director of Manufacturing
Innovation at Tesla

Dr. Sener Oktik
Chief Technology Officer, SISECAM

20:00 Get Together Party, Tampere
Exhibition and Sports Centre (Pirkkahalli)

The opening ceremony is moderated
by **Jussi Heikelä**



GPD Glass Performance Days 2019 • Program • June 27, THURSDAY

8:00

REGISTRATION

	Complex Geometry & Curved Glass	Laminated Glass	Arch Challenges & Solutions	Research & Development	Facade Engineering	Glass Technology Applications	Tempering / Preprocessing	Future Opportunities in Business
9:00	Durability of Structural Silicone Sealant in Cold Bent Glazing Design Jon Kimberlain, Dow Performance Silicones	Design and Validation of Large Format Self supporting Laminated Glass Beres Dowdle, Surface Design Consulting	Glass Creep of Unsupported Lites in Laminated Glass Julia Schimmelpenningh, Eastman Chemical Company	Effects of wavelike distortions on strength of thermally curved glass Matthias Seel, MPA-IfW, Technische Universität Darmstadt	Hybrid façade elements made of FRP and Glass Alina Joachim, Technische Universität Dresden	Glass igloos and large scale architectural case studies Timo Saukko, Finnglass Oy	A micro-mechanical model to calculate the optimal HST holding time Gabriele Pisano, Construction Technologies Institute - National Research Council of Italy (ITC - CNR)	
9:25	Mistral Tower: Solutions for SSG Joints Optimization in Cold Bent Units Viviana Nardini, Sika Services AG	Design and Validation of Large Format Self supporting Laminated Glass Beres Dowdle, Surface Design Consulting	"The tallest, heaviest sliding glass door of all": a case study Pedro Borges de Araújo, Jofebar s.a. / panoramah!®	Edge strength: Crack system and possibilities of increasing the strength Steffen Müller-Braun, Technische Universität Darmstadt	Total transparency: All-glass designs and its features Christoph Bauchinger, seele / se-austria GmbH & Co. KG	Visual Quality of Glass - Anisotropic Effects - Status of the Guideline Stefan Goeddertz & Michael Elstner, Herzog & de Meuron, AGC Interpane	Checking if Heat Soak Testing was carried out Ignatius Calderone, Calderone and Associates	
9:50	Options for Complex Geometry Facades - Single Corner vs. Free Form Cold-Bending Benjamin Beer, Ramboll	Metal-to-glass bond strength of structural PVB Christian Louter, TU Delft	Structural Glass Challenges: Hudson Yards Observation Deck Eoin Casserly, schlaich bergermann partner	Impact on glass panes and the fracture energy equilibrium Sagar Vanapalli, Anhalt University of Applied Sciences	Advanced SSG Joints Method for Design of Glass Joints Viviana Nardini, Sika Services AG	RESERVED	On safety of Heat-Soak tested thermally toughened glass Andreas M Kasper, Saint-Gobain	

10:15

COFFEE BREAK, ONE-ON-ONE MEETINGS

Coatings Technology and Applications

Session Chairs: Benjamin Beer, Meinhardt Facade Technology & Oliver Hans, Schueco

11:00	Cold Warped Glass Engineering and Durability Robert Moisy, Surface Design Consulting	Next Generation Ionplast for Improved Glass Lamination Jennifer Schneider, Kuraray America Inc	Connecting Glass, Now and in the Future Graham Coult, Eckersley O'Callaghan	Extension of Pseudo-Elastic Cavitation Model for Cyclic Loading for TSSA Michael Drass, Technische Universität Darmstadt	Advanced Facade Types - The Closed Cavity Facade Valentin Balog, Drees & Sommer	Trends in offline and inline monitoring of coatings along the value chain of architecture, automotive, solar and smart glass Marcus Klein, SURAGUS GmbH	Causes and Risk Management due to Glass Spontaneous Failure Beres Dowdle, Surface Design Consulting	
11:25	The Hot & Cold of Free-form Glass Facades Walter Hartnett, Thornton Tomasetti	Experimental and Methodical Investigations on the Hyperelasticity of Standard PVB Alexander Pauli, Universität der Bundeswehr München	HIGH TEC achievable for everyone Miguel A. Núñez Díaz, Enar, Envolventes Arquitectónicas	Post-breakage in-plane stiffness of laminated glass. An engineering approach Laura Galuppi, University of Parma	Building Sky View Agnes Koltay, Koltay Facades	Laser – a tool for glass processing Thomas Rainer, HEGLA boraident GmbH & Co. KG	Influence of cooling jets on stress pattern and anisotropy in tempered glass Reijo Karvinen & Antti Aronen, Tampere University of Technology/Glaston Finland Oy	
11:50	Curved and 3D Glass - the new hype in top end architecture Helmut Hohenstein, Dr. Hohenstein Consultancy	Investigations on the visco- and hyperelastic behaviour of polyvinylbutyral interlayers at different temperatures Miriam Schuster, Technische Universität Darmstadt	Inspection of Glass Facades Barbara Siebert, Dr. Siebert Consulting Engineers	Health monitoring of adhesively bonded glass elements by microcapsules Martin Kahlmeyer, University of Kassel	Structural Silicone Joint Dimensioning: ETAG002 and beyond Valérie Hayez, Dow Silicones Belgium	Digitalization of industrial coating production Harald Hagenström, VON ARDENNE GmbH	Anisotropy Measurement for Architectural Glass Louis Moreau, AGNORA	

12:15

STEP-CHANGE, LUNCH, ONE-ON-ONE MEETINGS

IGU & Window technology

STEP-CHANGE, LUNCH, ONE-ON-ONE MEETINGS

Why you should work with startups?
Alberto Onetti, Mind the Bridge

13:45	Curved Glass: Reshaping architectural glass with new possibilities and frontiers Javier Sanchez-Gil, Cristacurva	Automating Flat Glass Lamination Process Riku Färm, Glaston	The evolution of Windows and Insert Elements has been driven by trends and enabled by technology – where are the limits? Karl Stefan Dewald, Schüco International KG	The KLEBTECH-network – SMEs join forces on quality management and damage-tolerance of adhesive bonding for glass constructions Silke Tasche, Technische Universität Dresden	2050M Street, Washington DC - Utilizing cylindrical glass Richard Green, Front Inc	Glass coatings that recycle sunlight instead of throwing it away Joe Kao, PHYSEE	Thermal radiation and forced convection in glass tempering furnaces Mikko Rantala, Glaston Finland Oy	
14:10	We can dream it, can we deliver it... curved unitized glazing William R. Halter, Elkus Manfredi Architects	A comparison of various deairing methods for windshields, sidelites and sunroofs Serhat Oran, ÖLBRIGHT AUTOMATION GMBH	Maximizing façade transparency with crystal clear silicone spacers Valérie Hayez, Dow Silicones Belgium	A UV-cured functional coating to prevent glass stress corrosion Mauro Corrado, Politecnico di Torino	Development of a Novel CCF Glass Tube Façade in Hong Kong Martien Teich, seele GmbH	Glass Coatings Useful for the Prevention of Bird Collisions Enos "Andy" Axtell, Ferro Corporation	New Trends in ERP software for the flat glass industry Horst Mertes, Fenetech EUROPE SARL	
14:35	Enhancing the Light – Curved Insulated Glass Unit Design Study Adam Nizich, Walter P. Moore and Associates, Inc.	Controlling lamination result of EVA laminating films for several lamination processes Steffen Bornemann, Folienwerk Wolfen GmbH	Large cavities between glass panes by pressure-equalised insulating IGU Ulrich Sieberath, ift Rosenheim	Optically Tunable Dynamic Windows based on Reversible Metal Electrodeposition Tyler Hernandez, Stanford University	Next Step in Structural Glass - Digital Design and Fabrication Peter Lenk, Dimitris Vitalis Arup	Functionality and performance tests for coatings on glass for solar application Elisabeth Klimm, Fraunhofer Institute for Solar Energy Systems	RESERVED	

15:00

COFFEE BREAK, ONE-ON-ONE MEETINGS

15:45	Glass Quality and Specification of Curved Panels Naomi Schlösser, Eckersley O'Callaghan	Sound Insulating interlayers risks, challenges and solutions Tomas Lenkimas, GLASSBEL	Climatic Load Design Parameters for the United States James Griffith, Arup	Novel Method for Cold Bending Glass – Transparent Structural Silicone Adhesive Jon Kimberlain, Dow Performance Silicones	Complex geometry glass balustrade: Eleftheria Square, design and construction Frederico Figueiredo, Pentagonal Lda	Phosphorescent Paint in Glass Laminates Stefan Reich, Anhalt University of Applied Sciences	Influence of regrinding on the load-bearing capacity of glass components Katharina Lohr, Technische Universität Dresden	
16:10	Innovative glass bending technology for manufacturing expressive shaped glasses with sharp curves Tobias Rist, Fraunhofer Institute for Mechanics of Materials IWM	Many glass plies do really increase safety of laminated glass? Gabriele Pisano, Construction Technologies Institute - National Research Council of Italy (ITC - CNR)	Load Sharing of Insulating Glass Unit with Laminated Glass Stephen Morse, Michigan Tech University	Determination of prestress profiles in chemically toughened glass by means of photoelasticity Maximilian Laurs, RWTH Aachen	Nike Flagship Façade – From Design to Realization Georgia Ewen-Campen, Heintges Consulting Architects & Engineers, P.C	The true colour of glass in a facade, technology versus reality and how to overcome the misunderstanding Hermann Dehner, arcon Flachglas-Veredlung GmbH & Co. KG	Counting of fragments in tempered glass fragmentation test Antti Aronen, Glaston Finland Oy	
16:35	High performance coated bent tempered glass Dirk Schulte, Tianjin North Glass Industrial Technical Co., Ltd.	Modified ASTM Methodology for Insulating Glass Units with Two-Sided Support Mark Schmidt, Wiss, Janney, Elstner Associates, Inc.	A window for today Carlos Machado e Moura, Jofebar s.a. / panoramah!®	Statistical method to evaluate the process capability index of laminated glass regarding impact resistance Keyvan Piroird, Saint-Gobain	RESERVED	Design coatings - a game with colours and patterns Stefan Goebel, Arnold Glas	RESERVED	

17:00

BREAK, ONE TO ONES, HAPPY HOUR

19:30

CONFERENCE DINNER @ TAMPERE-TALO

23:00

GPD Glass Performance Days 2019 • Program • June 28, FRIDAY

8:00	REGISTRATION							
	Smart Technology	Glass & Sustainability	IGU & Window technology	Research & Development	Market Trends in the Glass Industry	Quality Management	Structural Glass Applications	Future Opportunities in Business
9:00	Glass laminated functionalities Kimmo Keränen, VTT	Energy efficient glazing to reduce CO2 emissions and energy consumption Cédric Janssens, Glass for Europe	The past, present, and future of the Vacuum Insulated Glazing technology Cenk Kocer, University of Sydney	Lower tail fit of the Weibull distribution for edge-line glass strength for structural use of glass Nabhajit Goswami, Michigan Tech University	Does glass manufactured abroad meet US code requirements? Vicente Montes-Amoros, CDC	Take your tempering process to the next level with data analysis, & automatic quality measurement Riku Färm, Glaston	Enhanced Effective Thickness Method for Cantilevered Laminated Glass Balustrades Adam Nizich, Walter P. Moore and Associates, Inc.	
9:25	A smart glazing technology addressing color, tint uniformity and, cost challenges Amir Bayati, Heliotrope Technologies	Energy Management by Daylight Control - Better Health by Daylight Helmut Koester, Koester Lichtplanung	The application and development trend of Vacuum Insulated Glass Liang Zhang, LandGlass	Simulation of Glass Fracture using Voronoi Random Field Tessellations Michael Kraus, Universität der Bundeswehr München	Transformational Use of 3D Printing in Facade Construction Stanley Yee, DOW Silicones Corporation	Optimized furnace settings with new Anisotropy and Haze measurement methods Kai Vogel, Viprotron GmbH	Stiff PVB and annealed laminated glass for balustrades fixed on one lower side: experimental and numerical analysis in regards to local European legislation Hugues Lefèvre, AGC Glass Europe	
9:50	Developing Active Windows and Facades through Innovation and Collaboration Rory Back, NSG Pilkington Glass	Why Fenestration U-factor is Important in Hot Climates Helen Sanders, Technoform	The Thermo-Mechanical performance of a Vacuum Insulated Glazing Window Franz Paschke, University of Sydney	Testing artificially aged silicone sealants for advanced applications Florian Gast, Dr. Siebert Consulting Engineers	The global float glass industry in the 21st century Bernard Savaète, BJS. Différences	Process to Avoid Window & Related Failures in High-Rise Buildings Frank Seta, Frank Seta & Associates	Cantilevered Laminated Glass Balustrades – Comparing Testing and Calculations Vaughn Schauss, Kuraray	
10:15	COFFEE BREAK, ONE-ON-ONE MEETINGS		Thin Glass and Applications	COFFEE BREAK, ONE-ON-ONE MEETINGS				
11:00	Buildings deserve a skin that positively impacts their energy and comfort levels Ferdinand Grapperhaus Jr., PHYSEE	Re-thinking the life-cycle of architectural glass Graeme DeBrincat,Eva Babic, Arup	Ultra-Thin Glass Projects Sophie Pennetier, Enclos	Transparent Epoxy Adhesives for Glass to Metal Joints Jan Wunsch, Technische Universität Dresden	Looking Beyond Industry 4.0 – The Digital Factory AJ Piscitelli, FeneTech Inc.	Surface Compression Comparative Measurements on Tempered Glass, with Different Instruments Ennio Mognato, Stazione Sperimentale del Vetro	Modelling laminated glass based on multi-layer interlayers: effective modulus approach Pol D'Haene, Eastman Chemical Company	
11:25	RESERVED	Addressing the end-of-life challenges in facade design Rebecca Hartwell, University of Cambridge	Load bearing behaviour of Innovative Lightweight Glass-Plastic-Composite Panels Julian Hänig, Technische Universität Dresden	An engineered tool for the soft-body impact on glazed surfaces Gianni Royer Carfagni, Maffeis Engineering	How can Glass manufacturers successfully manage their digital, transformation journey? Philippe Thiel, Siemens AG	RESERVED Extreme Conditions	Determination of Interlayer Mechanical Properties for Use in Laminated Glass Design Michael Härth, Kuraray Europe GmbH	
11:50	User-centred control of automated shading for intelligent glass facades Mauro Overend, University of Cambridge	The use of high performance glass in renovation while maintaining the building's identity Michael Elstner, AGC Interpane	Adaptive Façades Systems made from Thin Glass Jürgen Neugebauer, University of Applied Science FH-Joanneum	Structural Silicone Performance after 31 years in service in Japan, Fumihiko Chiba	The Future of Software in Glass Processing Hans Kull, Inmatic	Seismic Testing Results of a Decorative Glass Wall Mounting System James Gulnick, McGrory Glass, Inc.	One single model: structural glazing analysis for complex shape structures Massimo Maffeis, Maffeis Engineering	
12:15	STEP-CHANGE, LUNCH, ONE-ON-ONE MEETINGS			Facades from Concept to Realization	STEP-CHANGE, LUNCH, ONE-ON-ONE MEETINGS			How to fall out of love with your own idea Mirkka Länsisalo, Futurice
13:45	Mobile-friendly Glass - comparing solutions from the end user viewpoint Juha Lilja, Stealthcase Oy	Truly Transparent Solar for Electricity Generating Facades Miles Barr, Ubiquitous Energy	The Gravity Project: "Innovative use of thin glass and adhesives, structurally" Vladimir Marinov, Define Engineers Ltd	Adapting Buildings – A Smart City Approach Michael Barlow, Urbis Pty Ltd	High efficient processing of display glass for automotive, applications Robert Prange, Bystronic Maschinen AG (CH)	Technical Considerations and Performance of Structural Glazing Glass Façade of High-Rise Building in Extreme Climate Eric Wang, Dow (Shanghai) Holding Co., Ltd.	Transparency Revisited – a structural glass approach to Pei's Louvre entrance Gregor Horstmeyer & Lisa Rammig, Eckersley O'Callaghan	
14:10	Investigation of 5G radio frequency signal losses of glazing, structures Aki Karttunen, Aalto University	Printed Perotech - New architectural BIPV solution technology Vesa Jääskö, Aalto University	Structural behaviour of Thin Glass-Polycarbonate Composite Panels Sebastián Andrés López, Universität Siegen	171, A Three Part Exploration of Daylight and Glass Tim Leslie, Batessmart	Standardization of machine interfaces Gesine Bergman, VDMA	Blast Response of Laminated Glass Panels Socrates Angelides, University of Cambridge	The Glass Swing of the University of Delft Rob Nijse, University of Delft	
14:35	Physically Accurate Visual Representation of Advanced Glass Facades Nebojsa Jakica, University of Southern Denmark	Analysis of natural sand for soiling tests and qualification of, solar glass with a soiling sensor Elisabeth Klimm, Fraunhofer Institute for Solar Energy Systems	RESERVED	Specific Solution for a Specific Opportunity Keith Boswell, Skidmore Owings and Merrill	North American Market Trends and Drivers Urmilla Sowell, NGA	An engineering approach for the basic design of glazed surfaces under blast waves Gianni Royer Carfagni, Maffeis Engineering	Challenging laminated glass projects in Russia Stanislav Chesnokov, Glass Research Institute	
15:00	COFFEE BREAK, ONE-ON-ONE MEETINGS							
15:45	Track and Trace Using State of the Art IoT Technology Sarah Kugler, A+W Software GmbH	Parametric Thermal Transmittance Numerical Modeling of a Curtain Wall Fenestration Olivier Brouard, Skidmore Owings and Merrill	Scaling thin glass use to the architectural world Marco Zaccaria, AGC Glass Europe	Just meeting the specified Standards is not good enough Andreas Hiersemenzel, HS&A Ltd	HEAL Lab develops new digital services around Healthy and, Affordable Living Julia Ahvenainen, Stora Enso	Adhesives for Blast Scenarios – Extreme Conditions for Structural Sealant Glazing Julia Endress, Sika Services AG	Structural Glass walls - Gravity and Stability Elements Peter Lenk, Graham Dodd & Felix Weber, Arup	
16:10	Impact of novel glass and insulation technology on future transportation Fabio Favoino, Politecnico di Torino	Solution processed thermochromic coatings for energy efficient glazing Pascal Buskens, Brightlands Materials Center / TNO	A form-adaptable FRP-Glass vision panel Mauro Overend, University of Cambridge	Façade Performance – Real Time Sensor based Data collection Oliver Ng, BG&E Facades (Facade Consultants)	Startup mentality in a traditional industry Eyal Peso, Gauzy Ltd	Transparency in Blast Resistance: The Museum of Westward Expansion, St. Louis Marcin March, Thornton Tomasetti	Modular safe glass beam system: experiments and design aspects Kenny Martens, Vitroplena	
16:35	Design coatings - a game with colours and patterns Hermann Dehner, arcon Flachglas-Veredlung GmbH & Co. KG	ISOshade - Latest development in double skin facades Heiko Mertel, iconic skin GmbH	Thin Glass for Architectural Applications Christian Louter, TU Delft	High Rise Facades: Managing Risk for Architects Peter Smithson, Smithson Associates	RESERVED	The Effects of Aerodynamic Damping on Cable-Net Glass Walls Eoin Casserly, schlaich bergermann partner	RESERVED	
17:00 19:30 DAWN	BREAK, ONE TO ONES, HAPPY HOUR							
	17:00 CLOSING CEREMONY JA KLO 19:00 FAREWELL PARTY @ RUSTHOLLI							

PARTICIPANT REGISTRATION

PARTICIPANT REGISTRATION & HOTEL RESERVATION

While completing your registration, you will also have to choose your participation in the GPD Workshops and evening social activities. Participating in any workshop comes at an additional fee of **Euro 150** + VAT 24%.

Please, keep in mind that during the time of the Conference, Tampere hotels may be fully booked, therefore ensure that you [book your hotel room immediately](#) after finalizing your registration.

Please Note: During GPD time, there will be Tampere EURO2020 games going on. For this reason, hotel space is very limited and we urge you to book your room early. You can modify your room reservation later.

REGISTRATION FEES FOR PARTICIPANTS:

24% VAT and **35€** service fee are added on all registration fees as indicated in the following registration fee structure.

EUR 1 150 + VAT 24%, for registrations received between January and April 30, 2019.

- **EUR 1 250** + VAT 24%, for registrations received from May 2019 until the conference time

The fee includes

- admission to all sessions scheduled June 27–28, 2019
- conference material
- lunches and teas/coffees on conference days
- admission to the Glass Expo
- admission to the Get Together and Farewell evening parties with food and drinks
- transportation to and from the conference venue and evening events

CONFERENCE DINNER

The registration fee does not include the conference dinner. A separate fee of **Euro 100** + VAT 14% is charged per person. If you are interested to attend the dinner, please book a seat while you are registering for the conference. Due to the popularity of this event, we encourage early registration!

FEES FOR ACCOMPANYING PERSONS:

EUR 130 + VAT 24%

This fee is available only for participant's spouse (or equivalent). This fee does not allow accompanying guests' entrance to the conference sessions.

Fee includes:

- accompanying guest badge
- entrance to the Opening Ceremony on June 26, 2019
- admission to the Get Together and farewell evening events with included food and drinks
- transportation to and from the conference venue and evening events

Children below 18 years can join free of charge.

GROUP DISCOUNT

There is a possibility to register as a group and get discounted rates indicated below. An invoice will be issued and once paid; you will be given the instructions of how to register the members of the group.

- Group registration for 5 people gets 10% discount
- Group registration for 10 people gets 15% discount

STEP CHANGE

EUR 450 + VAT 24% per participant after January 14th, 2019

- Ask for the Step Change code from the organizers
- Investors and mentors register as regular participants

REGISTRATION OFFICE CONTACT DETAILS

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