

The Largest International Conference on Architectural, Solar and Automotive Glass

FINAL PROGRAMME

CONFERENCE & GLASS EXPO 17 – 20 JUNE, 2011
WORKSHOPS 16 - 17 JUNE, 2011
TAMPERE, FINLAND
www.gpd.fi/finland

Glass and Solar in Sustainable Development

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GPD Contact Forum

Pre-organize meetings through the new web service opening in April

- o The enhanced GPD Contact Forum is available only for registered attendees and it offers an opportunity to maximize the efficiency of their stay during GPD.
- o The Contact Forum will include user profiles of:
 - o Registered Participants
 - o Speakers
 - o Exhibitors
- o The mission of the Contact Forum is to prepare the ground for enhanced networking by enabling and facilitating one-on-one meetings between participants, speakers and exhibitors. Users will be able to view the profiles and book directly, meetings in advance with other attendees they wish to meet.
- o This empowers all attendees that use it actively to network effectively before, during and after the event.

Because every contact counts!



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GPD - an ACE for Challenging Times

The GPD has been successfully arranged for a number of years and can well be called a tradition. But it is much more than that. Over the years we have inspired the interest groups of the glass industry to perform better and more efficiently primarily by exchanging information & technologies and expanding the horizons of the industry. We have done this together and have seen amazing dimensions of what glass can do – in energy economy, in solar applications and many other aspects. We have also seen the importance of providing the GPD as a source of inspiration and an ace for tough times. It is important not to duck when times are tough but to look forward and invite better times by positive action.

Doing this cost-effectively is the special Ace of the GPD itself. Your trump card for challenging times.



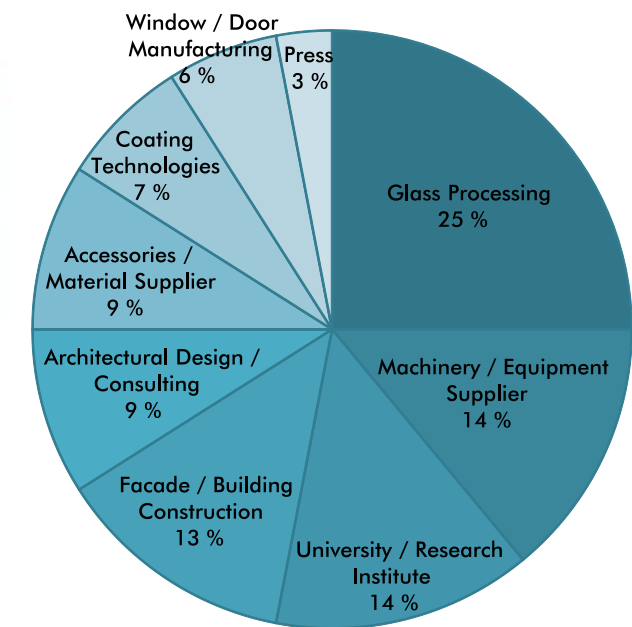
Welcome to Tampere!

Jorma Vitkala
Chairman of the Organizing Committee
Glass Performance Days
mob. +358 40 553 2042 | jorma.vitkala@gpd.fi



- almost 850 participants from over 55 countries
- over 300 presentations
- 17 workshops
- Glass Expo

GPD FINLAND AUDIENCE 2005-2009



Who should attend: glass processors and manufacturers, material and machinery suppliers, glaziers, architects, construction specialists, university representatives, window and IG-unit manufacturers, consultants, representatives from the automotive industry and research institutions.

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TAMPERE - a Clean, Modern and Safe Nordic City

GPD is held in the city of Tampere, a busy Finnish lake territory city, with a population of app. 210,000. Tampere is an excellent example of a clean, modern and safe Nordic city. It was founded in 1779 on the divider between two great lakes - Näsijärvi and Pyhäjärvi - linked together through the Tammerkoski rapids. The traditional industrial area around the Tammerkoski rapids is one of the official national scenic areas in Finland.

A City of Research and Education

Tampere is a city of research and education on both a national and an international scale. There are two major universities, a university hospital and numerous institutions of education as well as organizations operating in high-tech sectors. Tampere is the centre of the second largest urban region in Finland with an exceptional cultural life.

Tampere Tourist Office

The staff of Tampere Tourist Office is available to help you with any questions. They are pleased to recommend sights, attractions and activities in the region. Tourist Office organizes for example sightseeing tours. Bike rental is available for tours around the city. The staff will serve you in English, German, French, Swedish and Russian. Other languages are accommodated by request.

More about tourism in Tampere www.gotampere.fi

Tampere Hotels

The GPD organization committee has made block hotel reservations in all the major hotels in Tampere and will book them according to your preferences. These reservations come with discounted room prices ranging from EUR 85–145 per person per night. Hotel reservations are required to be made while delegates are registering for the conference on the registration form, since June is the peak season for tourism and all accommodation facilities will be fully reserved in Tampere by then.

Tampere Hall

The conference will take place in Tampere Hall, the largest congress and concert centre in the Nordic region. It is located within a walking distance from the city centre and all major hotels.

See more about the venue at www.tampere-talo.fi

Climate in Finland

The weather is mostly warm and pleasant in the middle of June. Daily temperatures range from 15–30°C. Evenings and nights may be cooler, but bright.

For more information on Finland, please visit www.finland.fi



HOW to Get There

The Tampere-Pirkkala International Airport operates direct flights to several locations in Europe. For example, Ryanair flies to Tampere from Frankfurt, London, Bremen, Edinburgh, Milan and Oslo.

All major international airlines fly to Helsinki that offers frequent connections to Tampere by air. Bus and train connections for the two hour travel to Tampere are frequent and comfortable.

Below some samples for airfares to Finland.

London 40-300€ | Berlin 50-200€ | Munich 90-250€ | Paris 120-250€ | Milan 100-400€ | | New York 350-1400€ | Chicago 700-1200€ | Bangkok 400-1400€

Flying to Finland

All major international airlines fly to Helsinki

Finnair www.finnair.com

Blue1 www.blue1.com

Scandinavian www.flysas.com

airBaltic www.airbaltic.com

Ryanair www.ryanair.com

easyJet www.easyjet.com

airBerlin www.airberlin.com

Tampere-Pirkkala airport www.finavia.fi

Helsinki-Vantaa airport www.helsinki-vantaa.fi

Travelling in Finland

Train timetables and online & mobile tickets:

Finnish Railways VR www.vr.fi/en

Bus timetables and tickets www.matkahuolto.fi

Visit Finland www.visitfinland.com

Google maps <http://maps.google.com> Helsinki

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17 JUNE 2011 AT TAMPERE HALL

9:00
9:45
10:15
13:00
13:30
15:00

FRIDAY WORKSHOPS

Digital Printing with Ceramic Ink Technology

Solar Power: Opportunities for the Glass Industry

Fundamentals of Glass Strength, Stress Analysis and Design Methods

Structural Glass Façades and Enclosures

Glass Surface Treatment: Washing, Polishing, Corrosion Protection

THE FUTURE OF ARCHITECTURAL GLASS INDUSTRY

Introduction speeches for all the participants

Mr. Bernard Jean Savaëte, BJS. Différences

Glass History Milestones

Mr. Hubert Kopf,

Director of Sales and Marketing Central and Eastern Europe,
Guardian Industries

Future Opportunities / Trends

Environmental & Legal Trends

introduction speech
Ms. Katja Bergroth
Pöyry Management Consulting Oy

Discussion about trends

Technology Trends

introduction speech
Prof. Kaisa Väänänen-Vainio-Mattila
Tampere University of Technology

Discussion about trends

Global, Customer & Market Trends

Discussion about trends

12:00–13:00
Press Conference

CONCLUSIONS

CEO LUNCH

Invited guests, press, sponsors &
The Future of Architectural Glass Industry–workshop participants

CONTINUES ON
THE NEXT PAGE

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17 JUNE 2011 AT TAMPERE HALL

15:30

THE OPENING CEREMONY

All the registered participants and accompanying persons



15:30
OPENING ADDRESS

*Mr. Arto Metsänen,
CEO Glaston Corporation*



15:40
OPENING ADDRESS

*Mr. Jorma Vitkala,
Chairman of the
Organizing Committee GPD*



15:45–16:10
KEYNOTE SPEAKER

**GLASS IN THE BUILT
ENVIRONMENT**

*Mr. Bruce J. Oreck,
Ambassador of USA to Finland*



16:15–16:40
OPENING SPEAKER

**SMART GRID & DESERTEC –
TURNING THE VISION INTO REALITY**

*Mr. Ralf Christian,
CEO Power Distribution Division,
Siemens AG, Energy Sector*



18:45–19:15
OPENING SPEAKER

NO TIME FOR THE TIMID

*Mr. Russell J. Ebeid,
President Guardian
Glass Group*

16:45–17:30 COFFEE

17:30–18:45
ARCHITECT COMPETITION
SUOMEN PANKKI PLAZA
*Presentation of the proposals and announcing
the winner by Professor Hannu Tikka,
Tampere University of Technology*

PROPOSALS:

ALA Architects Ltd.

*Mr. Keith Boswell,
Skidmore, Owings & Merrill*

*Mr. James Carpenter,
James Carpenter
Design Associates Inc.*

*Mr. Werner Sobek,
Werner Sobek Stuttgart
GmbH & Co. KG*

GET TOGETHER PARTY

All the registered participants and accompanying persons

19:15

22:00

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Saturday, June 18, 2011

Conference Dinner 19.30 - 23.00

Energy Performance in Buildings

Chairpersons: W. Wagner - Sika Service AG & P. Cumpelik - AGC Glass Europe

9.00 How to Be Sustainable on Glass and Façade Engineering?

Dr. de Gaetano, Thornton Tomasetti

9.30 The Recast EU Energy Performance of Buildings Directive

Mr. R. Wilberforce, Glass for Europe

9.50 Energy Labeling of Windows and Roof Windows, Set-up of an Understandable...

Mr. Jens Kristiansen, VELUX A/S

10.10 Reflections on Glass: Attributes of Performance and Appearance...

Mr. Mic Patterson, Enclos Corp.

10.30 - 11.15 COFFEE BREAK

11.15 New Generation of Point Fixed Glazing with Improved Thermal Insulation

Mr. Pavel Cumpelik, AGC Glass Europe

11.35 The Influence of Isolation on the Thermal Performance of Triple...

Dr. Yueping Fang, University of Ulster

11.55 Energy Aspects of Using a Wall Unit...

Dr. Christina Stålhandske, Glafo

12.15 - 13.45 LUNCH

13.45 What Differences Real Warm-Edge Spacers Can Do to Insulating Glass

Mr. Christoph Rubel, Edgetech Europe GmbH

14.15 The Common Use of Structural Glass in Private Houses

Mr. P. Wilson, Malishev Wilson Engineers

14.45 Nature Research of New Generation Windows from PVC Profiles in Moscow..

Mr. Nikolay Pantyukhov, NIISF RAABS

15.15 - 16.00 COFFEE BREAK

16.00 CFD Modeling of Wind-Driven Convection Heat Transfer in...

Mr. D. Bettenhausen, Enclos Corp.

16.30 Comparing Thermal Performance of In-Situ and Proposed Replacement..

Mr. A. Cinnamon, Wiss, Janney, Elstner Assoc., Inc.

16.50 A Double-skin Façade Thermal Study in the Russian Climatic Conditions

Mr. Andrey Shekhovtsov, Research Institute Of Building Physics

17.10 Erecting of Energy Efficient Multifunctional Skyscraper Using...

Dr. B. Ukhov, Reynaers Aluminium Rus

Architect Forum

Chairperson: Jens Schneider - TU Darmstadt

9.00 Phenomenal Light – Enriching the Public Realm

Mr. James Carpenter, James Carpenter Design Associates Inc

9.45 Strategies for Stretching the Structural Limits of Glass

Mr. Timothy Macfarlane, Dewhurst Macfarlane and Partners

10.30 - 11.15 COFFEE BREAK

11.15 Glass Skins - Recent Work and Research

Mr. Werner Sobek, Werner Sobek Stuttgart

12.00 Glass Structures - Recent Developments and Future Requirements for Glass Products

Prof. Jens Schneider, TU Darmstadt

12.30 - 13.45 LUNCH

13.45 Beyond Transparency: Glass in Contemporary Architecture

Mr. Antti Nousjoki, ALA Architects

14.30 Interdisciplinary Collaboration in Exterior Enclosure Design

Mr. Keith Boswell, SOM

15.15 - 16.00 COFFEE BREAK

16.00 Is Glass Green? Dimensions of Sustainable Transparency and the Future of Glass in the Building Skin

Mr. Mic Patterson, Enclos Corp.

16.30 Beyond Boundaries - Exploring Geometric Complexity

Mr. Johann Sischka, Waanger-Biro Stahlbau AG

Read full abstracts of
all GPD Finland 2011
presentations at

www.gpd.fi/finland/abstracts

Tempering / Pre-processing

Chairperson: R. Quintero - Glaston Finland Oy

9.00 Agressive Environment in Tempting...

Mr. G. Rancoule, Vesuvius France SA

9.30 Thermally Toughened Safety Glass: Correlation Between Flexural Strenght...

Mr. Ennio Mognato, Stazione sperimentale del Vetro

10.00 On the Inhomogeneity of Residual Stresses in Tempered Glass Panels

Dr. Johan Anton, GlasStress Ltd

10.30 - 11.15 COFFEE BREAK

11.15 Mechanical Glass Tempering - Present Products and Future Challenges

Mr. Antti Aronen, TU Tampere

11.35 Influence of Edge Flaws on Failure Strength of Glass

Ms. M.Lindqvist, École Polytechnique Fédérale de Lausanne (EPFL)

11.55 The Analysis of Breakages of Curved Heat Treated Glass

Mr. John Colvin, JCGC Limited

12.15 - 13.45 LUNCH

Product and Process Case Studies

Chairpersons: Klaus Mühlhans - Glaston & Peter Böhmer - Hegla

13.45 Improved Cracking Resistance by Thin Film ALD Coatings

Mr. Olli Jylhä, Beneq Oy

14.15 Space Saving Dynamic Buffer System for Remnant Sheets

Mr. Torsten Kniepmeyer, ALBAT+WIRSAM

14.45 Optimised IG-Production Processes and Significant Reduction of Waste...

Mr. Robert Grieshofer, C.Bergmann KG

15.15 - 16.00 COFFEE BREAK

16.00 Cold Deformation of Insulating Glass

Dr. Peter Hof, TU Darmstadt

16.20 Precise Glass Penetration – Perfect Edge Quality

Mr. Peter Pokoern, Bohle AG

16.40 Development of a Plastic Connector for Use with Stainless Steel/ PP...

Mr. Lenz, Technoform Glass Insulation GmbH

17.00 New Benchmark in Sealing Speed and Quality of IG Units with Dynamic Mixing

Mr. Klaus Puschmann, Bystronic glass c/o Bystronic Lenhardt GmbH

17.20 New Very Eco-friendly Ways of Transporting Float Glass

Mr. Albert Balke, SGL Engineering GmbH

Solar - Materials & Technology

Chairpersons: Axel Giesecke - Dow Corning & Olivier Mal - AGC Flat Glass & Luc Moeyersons - DuPont de Nemours

9.00 Additional Surplus of an Antireflective Coating (HT-coating) on Solar...

Mr. Steffen Kittler, Interpane

9.30 New Transparent Conductive Materials for Solar Applications by...

Dr. Joop van Deelen, TNO Science and Industry

10.00 Bifunctional Solar Coatings: Antireflective and Self Cleaning

Dr. Gundula Hensch, TU Clausthal

10.30 - 11.15 COFFEE BREAK

11.15 Gradient Refractive Index Antireflection Films for Solar Energy Application

Dr. M. Minot, MinoTech Engineering Inc.

11.35 Local Initiators of Glass Alteration

Prof. Edda Rädlein, TU Ilmenau

11.55 Bipolar DC Waveform Characterization

Mr. Ken Nauman, Advanced Energy Industries Inc.

12.15 - 13.45 LUNCH

13.45 Analysis of Long Term Creep of PVB Encapsulant

Dr. Witold Szydowski, Solutia Inc.

14.15 Anti-reflective Hybrid Coatings for Glass Application

Dr. K. Matloka, DSM Functional coatings

14.35 TCO Production Equipment Requirements for Solar Applications

Mr. Erkki Seppäläinen, Beneq Oy

14.55 Off-line annealed TCO glass production equipment requirements: CASE Glaston-Beneq Off-line TFC2000

Mr. Miika Äppelqvist, Glaston Finland Oy

15.15 - 16.00 COFFEE BREAK

16.00 The Role of The Getter in the Glass to Glass Encapsulation

Mr. Antonio Bonucci, SAES Getters

16.20 Advanced Ionomer Encapsulants for Thin Film Technology

Mr. Michael Fehlings, DuPont de Nemours (Deutschland) GmbH

16.40 Benefits of Innovative Encapsulants for Micromorph Technology

Mr. Christos Sarigiannidis, Heliosphera SA

17.00 Performance Enhancements in a-Si:H/ μ -Si:H Thin Film Solar Cell...

Mr. B. Szyszka, Fraunhofer IST

Large Area Glass Coating for Energy Performance

Chairpersons: S. Nadel - Applied Materials & G. Kleideiter - Leybold Optics

9.00 Continued Process Improvements in Architectural Glass Coating

Dr. Christoph Köckert, VON ARDENNE

9.30 High Selective Solar Control Coatings – A Market Stigma or the Future...

Dr. Marcus Frank, Guardian Ind.

10.00 Advanced Equipment for Next Generation of Coatings on Glass

Dr. Jutta Trube, Leybold Optics

10.30 MF Power Supplies for State of the Art Sputtering Applications

Mr. Markus Bannwarth, HUETTINGER Elek.

11.00-11.35 COFFEE BREAK

11.35 TCO Production Window of the nAERO Process

Mr. Erkki Seppäläinen, Beneq Oy

11.55 Condensation on the Outside...

Mr. B. Szyszka, Fraunhofer IST

12.15 - 13.45 LUNCH

Laminated Glass/Process/Design

Chairpersons: Uwe Keller - Kuraray Europe GmbH Division Trosifol & Julia Schimmelpenningh - Solutia

13.45 Adhesion, Creep and Relaxation Properties of PVB in Laminated...

Dr. Leonardo Lani, University of Pisa

14.05 Lamination of Complex Laminates with PVB interlayer

Mr. Dan Domingos, Solutia Inc

14.35 Comparison of Laminated Glass Charts...

Dr. Stephen Morse, Texas Tech Univ.

14.55 Inorganically Filled PVB-film for Active Light Control

Dr. Jan Beekhuizen, Kuraray Europe GmbH, Division TROSIFOL

15.15 - 16.00 COFFEE BREAK

16.00 High Performance Interlayer Enables Cost Efficient Glazing

Mr. Ingo Stelzer, DuPont de Nemours

16.20 Ageing Behaviour of Polymeric Interlayer...

Mr. Michael Kothe, TU Dresden

16.40 Innovations in Glass Design...

Mr. James O'Callaghan, Eckersley O'Callaghan Structural Design

17.00 Where High Dense Colors Meets Transparency is Sublistyle

Mr. van Dijken, Van Dijken Glas BV

17.20 Innovation and Quality Improvement in Curved Glass

Mr. Robert Renat, Glasid AG

Sunday, June 19, 2011

New Products and Applications

Chairperson: N. Wruk, Pilkington Deutschland AG

9.00 Can Glass Compete with Acrylics in Large Aquarium Enclosures?

Mr. A.V. Majoral, Strain Engineering

9.30 Innovative Projects with New Building Materials

Dr. C. Eckhardt, Evonik Röhm GmbH

10.00 Energy Savings by Intelligent Solar Controlled Windows

Mr. Kim Hjorth Rasmussen, VELUX A/S

10.30 - 11.15 COFFEE BREAK

11.15 Transparent Electromagnetic Absorber for Electric Toll Collection Systems on High Ways

Dr. Tetsuya Hiramatsu, AGC Glass Japan/Asia Pacific

11.35 New Application for Media Façade Including Both Real LED Display in Glass and Transparent Uniform LED Lighting.

Mr. H. Lefèvre, AGC Glass Europe

11.55 Post-applied Film to Improve the Fire Resistance of Existing Glass Facades

Mr. Y. Misawa, Ove Arup and partners

12.15 - 13.45 LUNCH

13.45 Perforated Steel Plate to Laminated Glass Adhesive Properties

Mr. Paulo Carvalho, School of Architecture - University of Minho

14.15 Broad Screening of Adhesives for Glass-metal Bonds

Prof. Dr. ir.-arch. J. Belis, Ghent Univ.

14.35 Novel Connections for Steel-Glass and Glass-Glass Structures

Mr. James Watson, University of Cambridge

14.55 Hybrid Steel – Glass Beams with Polymer Adhesive

Mr. Michal Netušil, Czech TU

15.15 - 16.00 COFFEE BREAK

16.00 USB UltraSonic Bond – Dovetailing Flat Glass and Metal as an Alternative to Glue, Drill & Screw

Mr. Wolfgang Friedl, Grenzebach Maschinenbau GmbH

16.20 Bent Glass in Four-Point Bending Test

Dipl.-Ing. P. Krampe, TU Dresden

16.40 Purely Structural Glass Building Envelopes

Mr. Kassnel-Henneberg, Seele Sedak

17.00 Validity Check for Heat Soak Test

Dr. Thomas Rainer, boraident GmbH

17.20 Ceramic Digital Printing - Customizing Glass Façade Design

Mr. Bernd Hoffmann, Hoffmann GTD

Architectural Challenges & Solutions

Chairpersons: L.Carbary - Dow Corning & G. Dodd - Arup Materials Consulting

9.00 Considerations for the Condensation Resistance of Fenestration Assemblies

Mr. Tracy Rogers, Edgetech IG

9.30 Electronically Tintable Glass as an Architectural Enabler

Dr. Sanders, SAGE Electrochromics, Inc.

9.50 Glorious Golden Glass - Manufacturing Processes from Past to Future

Mr. Chris Barry, Pilkington NA Inc

10.10 Durability of SG-laminated Reinforced Glass Beams

Mr. C. Louter, École Polytechnique Fédérale de Lausanne (EPFL)

10.30 - 11.15 COFFEE BREAK

11.15 Determination of the Adhesion of Modern Adhesives to Historic Iron by Lap Shear Tests

Ms. L. Lauriks, Vrije Universiteit Brussel

11.35 Buckling Stability of Clamped In-plane Loaded Glass Panes

Dr. Stefan Reich, TU Dresden

11.55 Discretization of the Free-form Surfaces by Plane Elements Derived from Tangent Planes

Dr. Milena Stavric, TU Graz

12.15 - 13.45 LUNCH

13.45 Case Studies: The Icelandic National Concert & Conference Centre

Mr. Steen Elsted Andersen, Henning Larsen Architects

14.15 Case Studies in Optimization of Glass-panelized Architectural Freeform Designs

Dr. Michael Eigensatz, Evolute GmbH

14.45 Inextensional Theory Applied to Cold-bent Glass Built-in Stress Evaluation

Mr. Raphaël Royer De Vericourt, RFR

15.15 - 16.00 COFFEE BREAK

16.00 Structural Response of Multi-story Double-skin Facades

Mr. Jeffrey Vaglio, Enclos Corp

16.20 Experience with Adhesives in Term of Structural Use of Glass in Germany

Mr. Matthias Seel, Universität der Bundeswehr München

16.40 Large Corrugated Glass Facades

Prof. Rob Nijssen, TU Delft

17.00 Double Curved Glass Shells from Cold Bent Glass Laminates

Mr. Thiemo Fildhuth, ITKE - University of Stuttgart

Solar - Applications

Chairpersons: Bernhard Koll - Kuraray Europe GmbH Division Trosifol & Volker Geyer - Scheuten Solar

9.00 An Overlook on PV in the Glass Sector

Mr. Reinhold Buttgerit, Secretary General of EPIA

9.30 New Developments in the Commercialization of Glass...

Mr. Marc Thomas, Dyesol, Inc. & GM Glass Business Group

10.00 IGU and Solar Panel Application Optimization with Numerical...

Mr. Stanislav Chesnokov, Glass Research Institute

10.30 - 11.15 COFFEE BREAK

11.15 Enhancement of Energy Efficiency at Glass Tube Fusing

Mr. Hendrik Gebauer, Laser Zentrum Hannover e.V.

11.35 Building Integrated Photovoltaic – Outlook and Chances for the Glass Industry

Mr. Uwe Hering, Odersun AG

11.55 Challenge of Producing Dedicated Glass for PV Applications

Mr. Hans Mahrenholtz, glass global consulting GmbH

12.15 - 13.45 LUNCH

13.45 Innovations Around Anti-reflective Coatings for Solar Glass and Their...

Mr. Florian Haacke, Apricum - The Cleantech Advisory

14.05 Improvement of Performance and Cost of Functional Films Using Laser Area Laser RTP

Dr. Paul Harten, LIMO Lissotschenko Mikrooptik GmbH

Solar - Quality

Chairpersons: Bernhard Koll - Kuraray Europe GmbH Division Trosifol & Volker Geyer - Scheuten Solar

14.25 Extreme Soiling of PV-modules

Mr. Karl-Anders Weiß, Fraunhofer ISE

14.55 The Hidden Costs of Dirt on Solar Panels

Mr. Stephen Byers & Mr. Chris May, Ritec

15.15 - 16.00 COFFEE BREAK

16.00 Defect Inspection and Precision Measurement in Solar Glass...

Mr. Kenneth Wawrew, SynergX

16.20 Evaluation of the Performance of Solar Glass Used for PV-modules

Mr. Karl-Anders Weiß, Fraunhofer ISE

16.40 Thin Glass Technology for Incapsulated Solar Panels

Ing. Richard Bruckner, INOVA-LiSEC Technologiezentrum GmbH

High-level Automation & Quality Management

Chairpersons: K. Mühlhans - Glaston & L.Wahlers - ISRA Surface Vision GmbH

9.00 Optical Quality Assurance and Process Control

Mr. Hans Örley, Dr. Schenk GmbH

9.30 The Strength of Water Jet Cut Glass

Dr. Frederic Veer, TU Delft

10.00 The Total Benefit of a Quality-Scanner...

Mr. Kai Vogel, Viprottron GmbH

10.30 - 11.15 COFFEE BREAK

11.15 Product Individualization – The new...

Dr. Thomas Rainer, boraident GmbH

11.35 Polishing Glass by Means of Water Jet Technology – Cross-disciplinary...

Ms. Maria Lang, Glafo

11.55 Influence of Experimental Test Type on the Determination of Probabilistic...

Prof. M^o C. Huerta, PU Madrid

12.15 - 13.45 LUNCH

Standards and Measurements for Mechanical Strength of Glass

Chairpersons: Jeff Haberer - Cardinal Glass Industries & I. Calderone - Calderone and Assoc.

13.45 Blast Resistant Glazing Design

Dr. Stephen Bennison, DuPont

14.05 Maximum Principal Stress and Probability of Breakage for Glass...

Prof. Scott Norville, Texas Tech Univ.

14.25 New German DIN Standard DIN 18008 for Design of Glass Elements

Mr. M. Seel, Univ. der Bundeswehr München

14.45 History and Update on the Use of ASTM E1300 for Glass Strength

Mr. Jeff Haberer, Cardinal Glass Ind.

15.05 A Critique of Glass Design Methods and Conversion Between Global...

Dr. Ignatius Calderone, Calderone and Assoc

15.25 - 16.00 COFFEE BREAK

16.00 Edge Strength of Cut and Polished Glass Beams

Mr. Marc Vandebroek, Artesis Hogeschool Antwerpen

16.20 An Analytical Method for Determining...

Dr. Stephen Morse, Texas Tech Univ.

16.40 On the Activity of the Russian...

Dr. Alexander Chesnokov, Glass Research Institute

City Reception 17.00 - 19.00

Façade Session - Advanced Architectural Glass Application

Chairpersons: Leon Jacob - Jacob & Associates & Keith Boswell - SOM

9.00 Double Skin Building Enclosures...

Mr. Keith Boswell, SOM

9.30 The Façade Consultant: Creativity and Technical Innovation in Glass

Mr. Peter Smithson, BGE Façades

10.00 Structural Glass Façade Technology as...

Mr. Mic Patterson, Enclos

10.30 - 11.15 COFFEE BREAK

11.15 Main Entrance Façade for the First Site...

Mr. Gennady Vasilchenko-Malishev, Malishev Wilson Engineers

11.35 Innovative Glass Facades with...

Mr. Olaf Tiegel, Sefar

11.55 The Influence of Scratches on the Residual Strength of Window glass

Dr. Leon Jacob, Jacob & Associates

12.25 - 13.45 LUNCH

Glass in Buildings

Chairpersons:

Thomas Henriksen, Waagner Biro & Lucio Blandini, Werner Sobek Stuttgart

13.45 Experimentation and Testing the Use of Electrochromic Windows...

Prof. G. Loddo, Cagliari Univ.

14.05 Switchable Glazing for Architectural Applications Based on Liquid...

Dr. Walter Haase, ILEK

14.25 Timber/Glass Adhesively Bonded I-beams

Ms. Louise Blyberg, Linnæus Univ.

14.45 Effects of Glazing Colour Types on Daylight Quality, Arousal and...

Ms. Helene Arsenault, Univ. Laval

15.05 New Developments in Claddings: ...

Mr. J. Astudillo Larraz, Fundación CIDEMCO

15.25 - 16.00 COFFEE BREAK

16.00 Development of a New Façade System with Hybrid Glass-steel Elements

Mr. T. Weimar, TU Dresden

16.20 The Features of Fracture and...

Dr. Yurii Rodichev, G.S. Pisarenko Institute for Problems of Strength

16.40 Rethinking Glass – New Design...

Ms. Kerstin Puller, ILEK

17.00 How to Accommodate Blast Loads on...

M. Sc Thomas Henriksen, Waagner Biro

Monday, June 20, 2011

Farewell Party 19.00 - until sunrise

IGU and Window Technology

Chairpersons: *Randolf Karrer - IGK
Isolierglassklebstoffe GmbH &
Tracy Rogers - Edgetech IG*

9.00 Integration of Window Bonding into IG Production Line

*Mr. Klaus Puschmann, Bystronic glass c/o
Bystronic Lenhardt GmbH*

9.30 Mechanical Deformations in a Vacuum Glazing; a Finite Element Modeling Study

Dr. Cenk Kocer, University of Sydney

10.00 Vacuum-Insulating-Glass vs. Triple-Insulating-Glass: Clear Superiority, Taking on a Challenge or Riding Two Abreast?

Mr. Wolfgang Friedl, Grenzbach Maschinenbau GmbH

10.30 - 11.15 COFFEE BREAK

11.15 Spring Stiffness of the Edge Sealing in Curved Insulated Glass Units

Dr. Jürgen Neugebauer, University of Applied Sciences - FH Joanneum

11.45 Compatibility in Facade and Fenestration

Dr. Wolfgang Wittwer, Kömmerling Chemische Fabrik GmbH

12.15 - 13.45 LUNCH

13.45 Experiences of Triple Pane IG-units During 40 Years of Use in Nordic Countries

*Mr. Ismo Heimonen & Mr. Kari Hemmilä,
VTT Technical Research Centre of Finland*

14.05 Life Cycle Analysis and Durability of Building Adhesives

Dr. Patrick Vandereecken, Dow Corning Europe sa

14.35 Practical Aspects of Manufacturing Triple Insulating Glasses for Central European Markets

Dr. Klaus Huntebrinker, ISOLAR-Glas-Beratung GmbH

14.55 Triple Glazing – Challenges and Solutions

Dr. Wolfgang Wittwer, Kömmerling Chemische Fabrik GmbH

15.15 - 16.00 COFFEE BREAK

16.00 Load Sharing and Load Resistance in Triple Glazed Insulating Glass Units

Prof. Scott Norville, Texas Tech University

16.20 Application & Possibilities of Triple Layer Insulating Glass Units

Mr. Michael Elstner, Interpane Glasgesellschaft mbH

16.40 Thin Glass Technology for Insulating Glass Production

Mr. Peter Holzinger, LiSEC Maschinenbau GmbH

Structural Engineering - Case Studies

Chairpersons: *L.Carbary - Dow Corning &
G.Dodd - Arup Materials Consulting*

9.00 Glass Special Structures - Recent Projects, New Challenges

Dr. L. Blandini, Werner Sobek Stuttgart

9.30 Behaviour of a Tall Glass Shear Wall

Dr. P. Lenk, Eckersley O'Callaghan

9.50 Lincoln Center Canopies - Glass Supporting Steel

Mr. M. Ludvik, M.Ludvik Engineering

10.10 Composite Steel-glass Fins for the Lobby Façade of Iberdrola Tower

Ms. Núria Guitart, Bellapart, S.A.U.

10.30 - 11.15 COFFEE BREAK

11.15 The Mall of Arabia in Jeddah - Generating Added Value for...

Mr. D. Schulte, APG Middle East FZC

11.45 Structural Behaviour of GFRP Reinforced Glass Beams

Prof. E. Speranzini, Univ. Perugia - DICA

12.15 - 13.45 LUNCH

13.45 Decoupled Sequential Single Degree of Freedom Analysis

Mr. James Casper, Enclos Corp

14.15 What Happens When Regulations Do Not Keep Up with Best Practice

Mr. Richard Green, Front Inc.

14.45 Blast Enhanced Cable Facades

Dr. Frank Wellershoff, Gartner Steel and Glass

15.15 - 16.00 COFFEE BREAK

16.00 A New Folding Glass Roof for the Historic City Swimming Hall Zürich

Mr. Philippe Willareth, Dr. Lüchinger + Meyer Bauingenieure AG

16.30 The Brisbane Supreme Court and District Court – Pushing the Envelope of...

Mr. Neil Kendrick, Lend Lease

16.50 Glass Connection - an Elegant Glass Bridge for the Center for the...

Mr. Christoph Paech, SBP GmbH

17.10 Strength Influencing Factors of Cyclic Loaded Glass Panes

Dr. Kaja Boxheimer, TU Darmstadt

Bonding and Point Fixing of Glass

Chairpersons: *Leon Jacob - Jacob & Associates
& Keith Boswell - SOM*

9.00 Transparent Structural Silicone Adhesive

Mr. Peter Hutley, CDC Inc/sponsored by Dow Corning

9.30 The Problem of a Failure Criterion for Glass-metal Adhesive Bonds

Mr. Dieter Callewaert, Ghent University

9.50 High-Strength Glass Bonding - a New Era in Facade Design?

Dr. Werner Wagner, Sika Services AG

10.10 Development of Adhesive Point-Fixings

Mr. Arno Van Hulle, Ghent University

10.30 - 11.15 COFFEE BREAK

11.15 Determination of Load Carrying Capacity and Service Ability...

Mr. M. Seel, Univ. der Bundeswehr München

11.35 Behaviour of Thin Adhesive Foam...

Ms. Claire Grenier, CSTB

11.55 Determination of Curing for Transparent Epoxy Resin Adhesives

Mrs. Christiane Kothe, TU Dresden

12.15 Investigation of Surface Modification Methods to Improve Adhesive...

Mrs. Christiane Kothe, TU Dresden

12.35 Experimental Analysis of Embedded...

Mr. Paulo Carvalho, Univ. of Minho

All Vehicles

Chairpersons: *Vincent I. Henry - Henry
Technology Solutions L.L.C &
Dr. Klaus Preusser, Consultant*

9.00 Glass and EVs – Solutions for Today and the Future

Mr. Aimo Åhlman, Valmet Automotive

9.30 Automotive Glass Coatings from History until Today

Prof. Yasunori Taga, Chubu University

10.00 Feasibility of Lead Free Soldering on Glass

Mr. Hagen Rakus, VW

10.30 - 11.15 COFFEE BREAK

11.15 Developing Windscreen Efficiency Demands

Mr. Mathew Rose, Solutia Inc.

11.45 Designing Windshields with PVB Interlayer for Enhanced Noise Reduction and Weight Savings

Prof. Jun Lu, Solutia Inc

12.15 - 13.45 LUNCH

13.45 New Capabilities of Today's Automotive Glass Equipment

Mr. Lorenz Buri, Bystronic Glass

14.15 Accelerated Quality Assurance – The Future

Mr. Christian Krenn, Softsolution GmbH

14.45 Room Temperature Joining of Organic/Inorganic Material Systems

Prof. Yasunori Taga, Chubu University

15.15 - 16.00 COFFEE BREAK

16.00 Laminated Glass for Modern Railway Glazing

Mr. Ingo Stelzer, DuPont de Nemours

16.30 Laminated Glass for Modern Marine Glazing

Mr. Sandro Casaccio, DuPont Glass Laminating Solution

17.00 Development of Magic Sky Control with Focus on Aging Stability

Ms. Jana Moll, Daimler AG

Changing Markets - Local vs. Global

Chairperson: *H. Hohenstein - Dr. Hohenstein
Consultancy*

9.00 The World Flat Glass Industry - Proposals for an Education on History & Economy

Mr. Bernard Jean Savaète, BJS.Différences

9.40 The Huge Impact on the Chinese Energy Efficiency Building Market through Low-E Coatings in Cold and Hot Climates

Dr. Helmut Hohenstein, Dr. Hohenstein Consultancy

10.00 Technical Regulation System Development and Flat Glass Market...

Mr. Lev Shakhnes, Union of Glass Companies

10.20 A Digital LED Screen for Façade Application

Dr. Manfred Arnold, INGLAS

10.35 - 11.15 COFFEE BREAK

11.15 Glazed Balcony – Input of Scandinavian Innovation to European Living

Mr. Pete Lattunen, Lumon International

11.45 The GlasHaus - a Concept for Residential Use of High-performance Glass

Mr. Jeppe Hundevad, APG Europe GmbH

12.15 - 13.45 LUNCH

13.45 Principle and Current Status of Vacuum Glass Technology

Dr. Helmut Hohenstein, Dr. Hohenstein Consultancy

14.15 Holistic Building Climate Design - The Users Point of View

Mr. Christoph Mitterer, Fraunhofer Institute for Building Physics

14.45 New LED Transparent Screens in IG for Façade Construction - a New World Brand

Mr. Reinhard Cordes, Only Glass

15.15 - 16.00 COFFEE BREAK

16.00 Glass and Glazing Industry - Resources, Standards, Codes and Associations

Mrs. Urmilla Jokhu-Sowell, GANA

16.30 Industry Trends in the UK 2010/2011 & Beyond

Mr. Nigel Rees, GGF

Read full abstracts of all GPD Finland 2011
presentations at

www.gpd.fi/finland/abstracts

Energy Performance in Buildings

The Energy Performance of Buildings Directive: Opportunities for the Glass Industry!

Mr. Rick Wilberforce, Glass for Europe

Field Investigation of Thermo Technical Characteristics of Transparent Double-skin Façade and Microclimate Parameters of Internal Premises of the Model of Atypical

Dr. Stanislav Tikhomirnov, NII SF RAABS

Air Permeability of an PVC-Window When Exposed to Freezing Temperatures

Dr. Alexey Verkhovskiy, Research Institute Of Building Physics (NII SF RAABS)

New Solar Reflective Glasses by Sol-gel Method

Prof. Zoufia Nagamedianova, Tecnología Automotriz

New Products and Applications

PVD-Technologies for Self-Cleaning and Antibacterial Applications on Glass and Plastics

Ms. Denise Köbler, Fraunhofer IST

New Glass-ceramics and Technologies Optimized on Structural Strength Criteria

Dr. Yurii Rodichev, G.S. Pisarenko Institute for Problems of Strength

Comparison of Optical Properties of Glass Modified by Surface Ion Exchange and Chemical Etching

Dr. Olga Sidelnikova, Institute of Solid State Chemistry and Mechanochemistry

Structural Engineering - Case Studies

A New Connection Method for Annealed Float Glass

Dr. Frederic Veer, TU Delft

Pre-stressed Glass Beams

Mr. Miguel Ángel Núñez Díaz, ENAR

An Innovative Glass Connection Technique Using an Ionomer Interlayer

Ms. Kerstin Puller, ILEK (Institute for Lightweight Structures and Conceptual Design), University of Stuttgart

Tempering / Pre-processing

Characterisation of the Scratch Resistance of Annealed and Tempered Architectural Glass

Mr. Sebastian Schula, TU Darmstadt

Quality Test for Uncoated Tempered Glass Surfaces

Mr. Gary Mauer, Window Cleaning Network

Product and Process Case studies

Vacuum-Insulating-Glass: The German Way of VIG-production

Mr. Wolfgang Friedl, Grenzebach Maschinenbau GmbH

Laminated Glass / Process / Design

Investigation of Strength Properties of Laminated Glass with Different Bonding Materials

Mr. Stanislav Chesnokov, Glass Research Institute

High-level Automation & Quality Management

Hidden Damage from the Cutting Process in Cut, Ground and Polished Glass

Dr. Frederic Veer, Delft University of Technology

Methods of Strength and Quality Control of Glass and Glass-ceramic Structural Parts

Dr. Yurii Rodichev, G.S. Pisarenko Institute for Problems of Strength

IGU and Window Technology

Serviceability Performance and Failures of IGUs & Environmental Action

Ms. Minxi Bao, University of Birmingham

Read full abstracts of all GPD Finland 2011 presentations at www.gpd.fi/finland/abstracts

WORKSHOP 15: The Future of Architectural Glass Industry

Time: Friday June 17, 2011 at 09.00-13.00 • Price 350€ + VAT 23%

Which are the megatrends defining the architectural glass industry in the future? Courage, creativity and business intelligence are fed during this innovative workshop targeted to the top management, factory owners, professionals of product development and sales and marketing. After mind-opening introduction speech the participants will concentrate on defining the future trends. The fruits of the teamwork and group discussion will be collected and summed in the conclusion speech.

Forget the crystal ball – this workshop is the place to get a vision of the future of the architectural glass industry!

- 30-50 workshop participants in total
- participants will be divided into trend groups of 15 persons max
- trend groups are hosted by senior consults who apply advanced workshop methods into the group work
- ready-made trend lists fuel the group discussion, whose target is to create as many innovative future trend as possible to be added in the lists
- each group will eliminate trends from the lists so that the top 10 trends most likely to actualize in 2011-2020 are left
- the top trends are summed into the workshop conclusion

Register to this and other workshops via the on-line registration form at www.gpd.fi/registration

| | | | |
|-------|---|--|---|
| 09:00 | The Future of Architectural Glass Industry introduction speech to all the participants | | |
| ▽ | ▽ | ▽ | ▽ |
| 09:45 | Environmental and Legal Trends introduction speech | Technology Trends introduction speech | Global, Customer and Market Trends introduction speech |
| 10:15 | discussion about trends | discussion about trends | discussion about trends |
| 12:00 | ▽ | ▽ | ▽ |
| 13:00 | Conclusion | | |
| 13:30 | CEO Lunch | | |
| 15:00 | invited guests + press + sponsors + WS The Future of the Architectural Glass Industry | | |

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ALL-ROUND FOCUS on single topics

GPD workshops are designed to provide participants with the opportunity to acquire more indepth knowledge of various topics. They are intensive 4-8-hour courses with each focusing on techniques and skills in a particular field. Participants get detailed information on various subjects, answers to their queries and updates on the latest developments. The workshops will take place before the conference. The main emphasis is interaction and exchange of information among relatively small groups e.g. the number of participants for practical workshops will be limited to 15 persons and 20-50 persons for theoretical workshops.

Registration for workshops is done while registering for the conference. This year the registration will be done on-line at www.gpd.fi/finland. More information on registration on page 17. The deadline for workshop registration is May 31, 2011. Please note that in the

event of an insufficient number of participants by the deadline, the workshop may be cancelled by the workshop organizer. If you wish to participate in one or more of the workshops, please indicate so on the registration form.

Workshop Prices:

| | | |
|--------------------------------|------|------|
| before April 15, 2011: | 120€ | 230€ |
| from April 15 to May 31, 2011: | 200€ | 300€ |
| + 23% VAT to all prices | | |

If participating to Workshops only, the price is +100€.

NOTE! The organizer or the speaker of the workshop reserves the right to accept participants.

Full workshop descriptions and details are available at www.gpd.fi/workshops.



WORKSHOPS on Thursday, June 16

WS01: Structural Properties of Laminated Glass

Dr. Stephen J. Bennison and Mr. Ingo Stelzer, E.I. DuPont de Nemours & Co. Inc. Glass Laminating Solutions

Time: 09.00-16.00 • Price 120€ + VAT 23%

- Interlayer properties
- Key concepts in the mechanical properties of glass
- Stress analysis of laminate beams and plates
- Available software tools for analysis
- Established and developing standards and codes of practice
- Design methodologies: facades, overhead glazing, flooring, balustrades, frameless glazing
- Case studies of design solutions with laminated glass

WS02: Optimizing Cutting and Grinding

Michael Emonds, Aachener Chemische Werke & Peter Pokoern, Bohle AG

Time: 09.00-17.00 • Price 120€ + VAT 23%

- Theory and practice of glass cutting and glass processing using diamond tools
- Cutting wheel, Cutting fluid
- Coolant chemistry
- Edge strength via vertical bend test
- Effect of surface finish and different coolants

WS03: Glass Tempering Process Basics: Fundamental Steps in Tempering and Machine Test Runs

Veli-Jukka Kuusiniemi, Tarmo Pesonen, Miika Äppelqvist, Glaston

Time: 9.00-17.00 • Price 120€ + VAT 23%

- Glass tempering theory and process know-how
- Quality influencers
- Effect of latest coating developments to tempering
- Different flat tempering technologies
- Practical tempering demonstration

WS04: Managing Quality in Glass Processing (Educational and commercial, including demos)

Juha Liettyä, Maaret Manninen, Glaston & Mikko Suomi, Ayrox

Time: 09.00-17.00 • Price 120€ + VAT 23%

- Most important tempered glass quality indicators
- Quality measurement points in tempering process
- Quality measurement tools
- On-line glass quality measurement
- Iridescence / anisotropy phenomenon

WS05: Laminated Glass in Architectural Glass Structures – Coated, Colored, Curved, EVA, PVB, SGP - You name It!

Leo Breukers, Bridgestone & Ari Uusikartano, Tambest Glass Solutions & Luc Moyersons, DuPont

Time: 09.00-17.00 • Price 120€ + VAT 23%

- EVA laminating – requirements and possibilities
- Curved and tempered glass in laminating process
- Coated glass behavior in heating process
- Sentry Glass Plus features
- Insight to Photovoltaic industry and laminated structures

WS06: Oh Dear! - Glass Problems and Reasons

John Colvin, JCGC Limited

Time: 09.00-16.00 • Price 230€ + VAT 23%

- A random discussion and explanation of glass problems
- Breakages and reasons for them - how to analyse
- Appearance problems and reasons for them
- Attendees are invited to bring examples of problems for discussion
- ANY query about glass and glass performance can be raised

Workshop listing continues on the next page »

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WORKSHOPS on Thursday, June 16 continues

WS07: Beneq Coating Workshop – Industrial Aerosol Coating and Atomic Layer Deposition

Beneq Coating Team, Beneq Oy

Time: 12.00-18.00 • Price 120€ + VAT 23%

This workshop will be held in Helsinki

- The world getting thinner with Beneq
 - Company status
 - Market development
 - Future prospects
- Aerosol coating
 - nAERO® Process parameters and capabilities
 - Off-line demo for TCO (PV and Low-e)
 - Industrial in-line and off-line configurations (incl. Beneq-Glaston TFC2000™)
 - nHALO® Process parameters and capabilities
 - Sample showroom & Laboratory tour
- Atomic Layer Deposition
 - ALD Process capabilities for glass:
 - Photovoltaic applications
 - Moisture barriers for organic and flexible electronics
 - Display (glass strengthening)
 - Emerging technologies (incl. Particle ALD™ and Continuous ALD)
 - Research
 - Sample showroom & Laboratory tour

WS09: Art of Gravity Bending Windshields

Mika Eronen, Safety Glass Experts International Oy Ltd

Time: 09.00-16.00 • Price 230€ + VAT 23%

- Infrared heating theory and how to control it
- Bending Process step by step from loading to unloading
- Tips and solutions how to produce perfect edge shape and geometry
- Challenges of gravity bending
- Bending process variables and elimination
- Typical errors and avoiding them
- Quality controls after bending

WS10: History – Today – Tomorrow: Milestones to Better Understand the Flat Glass Business

Bernard Jean Savaëte, BJS.Différences

Time: 09.00-16.00 • Price 230€ + VAT 23%

- Glass as a 5000 years old material
- Float glass, 40 years of major changes in Europe and key players of the global flat glass business
- A window through 100 years of automobile glazing
- Coatings on glass (including mirrors), key companions of glass body
- IG units (yesterday, today and tomorrow)
- Two key safety glass products: laminated and tempered glass, from amusement to necessity
- Patents, knowledge sourcing
- Some challenges for Europe and global flat glass industry

Full workshop descriptions at
www.gpd.fi/workshops



WORKSHOPS on Friday, June 17

WS08: Customizing Decorative Glass Facade. From Design to Implementation - Using Digital Printing with Ceramic Ink Technology

Yariv Ninyo, DipTech

Time: 09.00-13.00 • Price 120€ + VAT 23%

- When and why to use digital printing
- Digital printing background and history
- Digital printing workflow
- Ceramic ink characteristics
- Digital printing projects worldwide – use cases
- Digital printing current and future
- Open discussion
- Machine demonstration at a nearby glass processing factory

WS13: Solar Power: Opportunities for the Glass Industry

Glaston Presenter & Markku Rajala, Beneq & Andreas Karpinski, Kuraray & Olivier Mal, AGC & Bernd Szyszka, Fraunhofer IST & Stephen Byers, Ritec

Time: 08:30-14:30 • Price 120€ + VAT 23%

- Solar market review
- Photovoltaic PV technologies
- TCO coatings
- Thermal collectors
- CSP solar thermal power generation
- Surface protection
- Economics of solar power
- Building Integrated PV (BIPV)
- Solar glass performance and processing

WS14: Fundamentals of Glass Strength, Stress Analysis and Design Methods for Glass Selection and Use in Buildings

Dr. Leon Jacob, Jacob & Associates Pty Ltd

Time: Friday • Price 230€ + VAT 23%

- Material properties – Glass, pvb and SGP interlayers

- Discussion on permissible and ultimate design stresses for use with glass plates
- Fracture behaviour
- Glass plate behaviour subjected to uniform and other loading
- FEA methods and issues related to stress analysis of glass plates
- Stress analysis for glass plates – monolithic and laminated
- Response of glass plates to different load
- Review of some glass design codes
- Simplified methods for the analysis of glass to loading

WS15: The Future of Architectural Glass Industry (see also the ad on page 8)

Time: 9.00-13.00 • Price 350€ + VAT 23%

- Mind-opening introduction
- Environmental and Legal Trends
- Global, Customer and Market Trends
- Technology Trends

Workshop listing continues on the next page »

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WORKSHOPS on Friday, June 17 continues

WS17: Structural Glass Façades and Enclosures

Mic Patterson, Jeff Vaglio & Michael Ludvik, Advanced Technology Studio | Enclos

Time: 10.00-17.00 • Price 120€ + VAT 23%

- High transparency facades
- Structural system types
- Glass considerations
- Glass system types
- Steel fabrication considerations
- Cable nets
- All glass structures
- Double-skin applications
- Thermal and acoustical performance
- Solar control strategies
- Project delivery strategies
- Means and methods • Case studies

WS18: Glass Surface Treatment: Washing, Polishing, Corrosion Protection

Aachener Chemische Werke, TU Ilmenau, Grafotec

Time: 09.00-16.00 • Price 120€ + VAT 23%

- Native/aged glass surface
- Typical defects
- Glass surface analysis
- Glass corrosion
- Corrosion inhibition
- Glass washing
- Corrosion protection application technology
- Corrosion simulation test methods

Full workshop descriptions at
www.gpd.fi/workshops



GPD is supported by the following Trade Fairs & Conferences:

Related Trade Fairs

Glass Week

Las Vegas, NV, USA

March 24-27, 2011

www.glasswebsite.com

China Glass 2011

Shanghai, China • May 11-14, 2011

www.chinaglass-expo.com

AIA 2011 National Convention & Design Exposition

New Orleans, USA • May 12-15, 2011

www.aiaconvention.com

GlassBuild America 2011

Atlanta, GA, USA

September 12-14, 2011

www.glassbuildamerica.com

Vitrum 2011

Milan, Italy • October 26-29, 2011

www.vitrum-milano.it

fensterbau/frontale 2012

Nürnberg, Germany

March 21-24, 2012

www.frontale.de

Glasstec 2012

Düsseldorf, Germany

23-26 October 2012

www.glasstec-online.com

Related Conferences

BEC Conference

Las Vegas, NV, USA

March 27-29, 2011

www.glasswebsite.com

GPD China 2011

Shanghai, China

May 9-10, 2011

www.gpd.fi/china

Auto Glass Week

Memphis, TN, USA

September 15-17, 2011

www.autoglassweek.com

Ausfenex 2011

Gold Coast, Australia

September 21-23, 2011

www.ausfenex.com.au

ICCG 2012

Breda, The Netherlands

June 24-28, 2012

www.iccg.eu

ICG XXIII International Congress

Prague, Czech Republic

2013

www.icg.group.shef.ac.uk

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MEET THE GLASS *Industry's Key Players*

The exhibition will be located in the Sorsapuistosali in Tampere Hall. In addition, all coffees and lunches will be served there.

This combination of activities will provide exhibitors the best platform to showcase or launch products, services and know-how to the attending glass community.

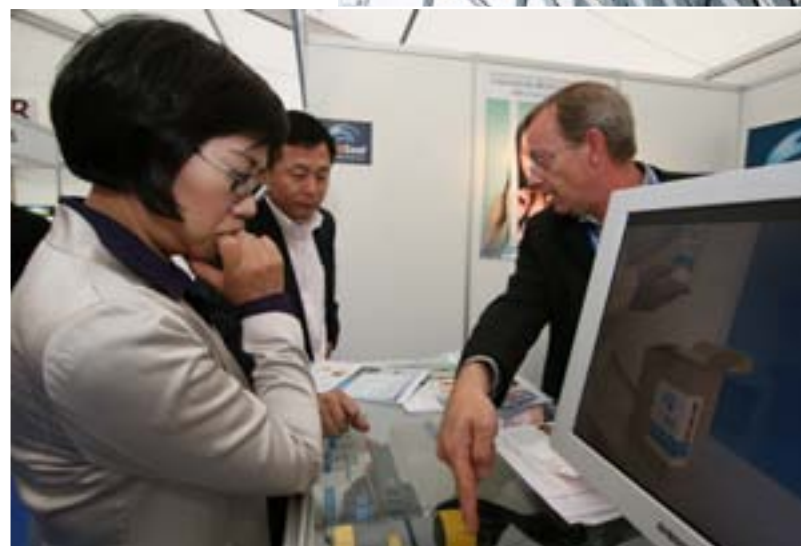
The exhibition will be open during the conference days from 9 a.m. to 6 p.m.

Full booking details online at www.gpd.fi/expo.



Exhibitor list

- Ausfenex
- Beneq Oy
- Bohle AG
- Bridgestone Industrial Ltd / N-Sorelle
- Bystronic Glass c/o Bystronic Lenhardt GmbH
- Cimec
- Dow Corning Europe S.A.
- Dr. Shenk
- Fraunhofer Institute
- Glasid AG
- GlasStress Ltd
- Glaston Oyj Abp
- Hegla GmbH & Co. KG
- HÜTTINGER Elektronik GmbH + Co. KG
- Interpane Glas Industrie AG
- Isra Surface Vision GmbH
- Leybold Optics GmbH
- Lumon Oy
- Mäkelä Alu Oy
- Mir Stekla
- Photosolar A/S
- Ritec International Ltd.
- Safety Glass Experts
- Sefar AG
- Sika Services AG
- Softeco Oy
- Soleras Ltd.
- Sputtering Components
- Valkeakoski
- Valmet Automotive
- W. Haldenwanger Technische Keramik GmbH & Co. KG
- Van Dijken Glas BV
- Vesuvius France SA
- Vindico Surface Technologies



NEW!

ENERGY EFFICIENCY and Solar Park

Sorsapuisto Tampere, 17-18 June 2011

The Energy Efficiency and Solar Park is targeted to consumers and glass industry professionals and it will be built in 2011 for the very first time.

Different applications of renewable energy sources, energy efficient solutions in buildings as well as safety and security glasses will be exhibited in the park. It provides exhibitors an excellent opportunity to introduce knowledge and products not only to the glass industry professionals, but to the general public as well, since there is no entrance fee into the park.

For more information, please go to www.gpd.fi/solarpark.



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EVENING ACTIVITIES

Meet, Share & Learn!

Get Together Party

- Friday, June 17, following the Opening Ceremony
- Venue: to be confirmed

All registered delegates and accompanying persons are invited. This event provides an excellent opportunity to meet old as well as new colleagues. Dinner and drinks will be served on complimentary basis.

Please confirm your participation during the on-line registration.

Dress code: Casual attire.

City Reception

- sponsored by the City of Tampere
- Sunday, June 19
- Venue: to be confirmed

All registered delegates and accompanying persons are invited. Snacks and drinks will be served on complimentary basis.

Please confirm your participation during the on-line registration.

Dress code: Business attire.

PS: There will be no special GPD activities after the reception. Delegates are free to arrange for meetings or dinners (at their own expense) elsewhere in Tampere.

In the summertime, many restaurants in Tampere remain closed or close early on Sundays. Thus, make your dinner bookings early to avoid disappointment. GPD will recommend good restaurants and some restaurants will have reservation tables at GPD.



Farewell Party - a Must Attend Event!

- Monday, June 20, 19.00 – until sunrise
- Venue: to be confirmed

As expected, the Farewell Evening party is always something unforgettable. This is an outdoor activity to allow delegates enjoy the Finnish nature as well as the light summer nights. Comfortable shoes and warmer clothing are recommended. Dinner and drinks will be served on complimentary basis. The set up will be very informal and will include special networking opportunities, activities and memorable entertainment!

Please confirm your participation during the on-line registration.

Dress code: Informal

Transport to and from all evening activities will be provided.



Conference Dinner

- Saturday, June 18
- Venue: to be confirmed
- Charges: 100€ per person (incl. VAT 23%)

Outstanding Finnish dishes, drinks and entertainment will be on offer in a unique and an impressive setting.

Please confirm your participation during the on-line registration.

Dress code: Business attire.

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Trip to the Beautiful Willows Farm Marjaniemi - on the way visiting the picturesque view point in Kangasala

Saturday, June 18, 10 - 13.30 • Price: 30€ per person



Marjamäki Willows Farm is located in Kangasala, in the heart of the Finnish countryside, very near to the Tampere city center.

Visitors can enjoy the peaceful and welcoming atmosphere, as soon as they will arrive at the gate. Altogether 14 varieties of willows for weaving and fence-making are ecologically grown in the fields, surrounding the farm. At the willows farm you can admire "the handmade willows art". The farmyard also offers outdoor sales booths and a new barn brimming with rustic furniture and home decoration products.

On the way back to Tampere the bus will stop at the view point in Kangasala which is one of the most picturesque places in Pirkanmaa.

Return bus transportation to the willows farm, tour leader's service, coffee & pastry at the farm are included in the price. Minimum number of guests 20.

Daytrip to Iittala Glass Centre

Monday, June 20, 9.00-15.00 • Price: 60€ per person

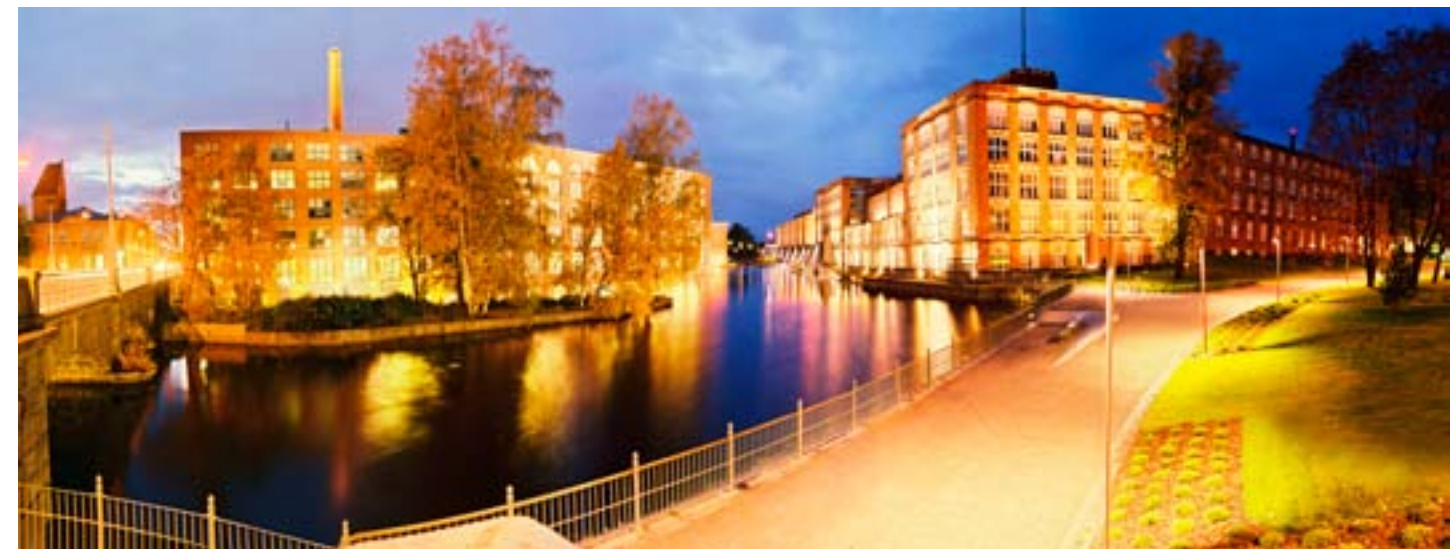


This trip will take you to a versatile and charming Iittala Glass Centre, the center of Iittala glass designs. The history and modern age will meet in the same park-like surroundings. The Iittala glass factory museum, which is a part of the national Design Museum, tells the over 125-year-long history of Iittala glass. On the factory tour you can experience glass production in the Hot Shop called Riihihytti.

After the guided tour in the museum and at the factory it is time for a delicious lunch. The rest of the time, before the tour bus leaves for Tampere, you can enjoy the lovely surroundings of Iittala. It is fun to shop in the Iittala factory outlet and in the nice little boutiques. The local chocolate and honey are delicious souvenirs.

The tour will be back in Tampere around 15 pm.

Bus transportation, guided tour at Iittala and lunch & coffee are included in the price. Minimum number of guests 20.



Walking Tour Along the Beautiful Tammerkoski Rapids to the Old Finlayson Factory Area

Sunday, June 19, at 11.00 & 14.00 • Price 20€ per person • Departure: Sokos Hotel Ilves • Duration: 1 hour

Join to a guided walking tour along the banks of the Tammerkoski rapids, recognized as a national heritage landscape! Learn to know Tampere better!

The destination of the fresh walk will be the historical Finlayson cotton mill area; this area with its history had a strong influence on the growth of Tampere. At Werstas we will hear more about this interesting history with a visit at the Steam Engine Museum. A Sulzer steam engine that used to produce power for the Finlayson mill can still be seen in its original location. This giant machine was taken

into use in 1900 and remains the biggest steam engine ever used in Finland.

The Finnish Ministry of Education has nominated the Finnish Labour Museum Werstas, a national special museum with extensive responsibility for museum activities pertaining to working life and social history in Finland

The price includes: guided walk in the city center, guided tour to the steam engine museum at Werstas (Finnish Labour Museum). Minimum number of guests is 8.

Finnish Sauna Evening for Your Group During GPD 2011

Would you like to organize an unforgettable, relaxing, real Finnish sauna evening for your group during GPD 2011 and enjoy the special midnight sun by the lake?

We will do all the arrangements for you! The transportation can be arranged either by boat or by bus. The boat ride will take you to the scenic lake Näsijärvi and ashore 13km from the city of Tampere. You can give the traditional Finnish smoke sauna or regular sauna a try and perfect the experience with an invigorating dip into the lake. Food, beverage and program will be arranged according to your wishes.

For more information and bookings, please contact: info@meetingsmill.fi

A full listing of all the tours and activities is available at www.gpd.fi/finland. Registrations for all the GPD organized tours are done during the on-line registration.

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GPD Golf Tournament: Linna Golf Hämeenlinna

Sunday, June 19, 13.30 - 22.00 • Price: 160€ per person

Linna Golf is Europe's best new course and a proud member of the European Tour Courses Group. Set amid majestic birch and pine forest on the historic Vanajan Linna Hotel estate, 100 km north of Helsinki and 80 km south of Tampere. The course has been specially designed to host top class professional events while presenting the average golfer with an enjoyable experience.

Now you have a chance to enjoy golf as its best in GPD Midnight Challenge!

Program

- 13:30 Transportation from Tampere to Linna Golf
- 15:00 Starting Tee times
- 20:30 Golf buffet at the clubhouse, distribution of prizes
- 21:00 Transportation back to Tampere
- 22:00 Back in Tampere

Price includes transportation, green fee, snack bag, prizes and golf buffet. If you need to hire golf clubs, please inform the organizer. Price for renting golf clubs is 25 euros/bag.



Registration for the GPD Golf Tournament is done via the conference registration form



Factory visits during GPD 2011

Factory Visits in Tampere - full details at www.gpd.fi/factory-tours

Time: TBA • Price: free of charge • The registration for the tour will take place at Glaston Expo stand during the conference hours



Glaston Corporation is an international glass technology company and a pioneer of glass processing technology and service business for glass processing machines. Glaston's well-known brands are Bavelloni in pre-processing machines and tools, Tamglass and Uniglass in safety glass machines and Albat+Wirsam in software solutions. As a globally operating company, Glaston serves its customers worldwide in over 20 locations. Glaston has production in four countries on three continents.

Read more at www.glaston.net



Rakla Oy is the biggest glass processor and wholesaler in Finland. The company product range consists of various safety glass products, insulated glass products and other specialty glass products.

During the factory visits you will be introduced to the latest development in glass processing machinery in glass heat treatment technology and pre-processing machinery. Also the latest development in the process automation, like the on-line glass quality measurement system Glaston iLook is introduced. The latest technology can be seen in real factory environment at Rakla Oy premises where the biggest glass processor in Finland is using the latest innovations in its production.

Read more at www.rakla.fi

Factory Visits in Forssa - full details at www.gpd.fi/factory-tours

Time: Mon 20 June, 2011 • Price: 50€



Tambest Glass Solutions Oy is one of the leading total suppliers of building glass products in Europe. The company manufactures all curved and flat safety glasses.

Read more at www.tambest.com/en



Fenestra Oy is the leading window and door supplier in Finland. Their product range covers wood-aluminum-frame windows, exterior and interior doors and related services. The company has produced triple (2+1) -glazed windows for over 20 years and are now introducing quadruple (3+1) -glazed windows.

Read more at www.fenestra.fi/portal/english



Uusioaines Oy recycles glass efficiently. The company specializes in the collection, delivery and cleaning of collectable glass (packaging glass, float glass) and the preparation of cullet for industrial use as a raw material.

Read more at www.uusioaines.fi

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Fees for Participants

23% VAT and a service fee are added on all registrations fees as indicated in the following registration fee structure.

| | |
|-------------------------------------|-----------------|
| if paid by/on March 14, 2011: | 1072€ + VAT 23% |
| if paid by/on April 30, 2011: | 1154€ + VAT 23% |
| if paid on May 1, 2011 or later: | 1236€ + VAT 23% |
| + service fee 45€ (incl. VAT 23%) | |

VAT refunds: Download VAT refund form and read more about value added tax in Finland from www.vero.fi/english.

Participant registration fee includes:

- admission to all sessions scheduled June 17-20, 2011
- conference bag and material
- lunches and teas/coffees on conference days
- admission to Glass Expo and Energy Efficiency and Solar Park
- admission to the following evening events with dinners and drinks: Get Together Party, City Reception, Farewell Party
- transportation to and from the conference venue and evening events

Registration Fee for Accompanying Persons

100€ + VAT 23% = 123€

This fee is available only to participant's spouse (or equivalent) or child traveling and staying in the same hotel with the participant. This fee does not allow accompanying guests' entrance to the conference sessions. It includes the following items:

- accompanying guest badge
- entrance to the Opening Ceremony on June 17, 2011

HOTEL RESERVATION & REGISTRATION

for the GPD Conference, Workshops and Social activities at

www.gpd.fi/registration

You should make your hotel reservation with the conference registration!

Please make sure you know your arrival and departure dates before beginning your registration. The hotel reservation dates can be modified later on.

For any changes or additions regarding your reservation and/or hotel accommodation, please contact Confedent International at gpd2011@confedent.fi.



- entrance to the following evening events with dinners, drinks and transportation: Get Together Party, City Reception, Farewell Party

Conference Dinner

Registration fees do not include the conference dinner. A separate fee of 100€ (includes tax) per person is charged for interested participants through registration. Due to the popularity of this event, we encourage early registration!

The **participant registration** is valid when the registration fee and service fee have been paid. If payment is done by invoice, payment must be received no later than the invoice due date. The organizer reserves the right to limit participation if necessary.

Terms of Payment

All fees should be paid in advance in EUROS. Cheques will NOT be accepted. The registration fee does not cover flights to and from Finland, insurance or accommodation. Travel insurance is recommended by the organizers.

Method of Payment

1. Credit card: VISA, Visa Electron and MasterCard are accepted. Please follow the payment instructions available on the registration form. Once your payment has been received, a receipt/confirmation will be sent to you for your records.

2. Invoice
NOTE! If you choose to pay by invoice an additional fee of 50€ will be charged.

3. Internet banking
An invoice will be sent to registered participants by e-mail. Participants must make their bank transfers after receiving the invoice. When making the transfer, the invoice number and participant's name must be indicated on the transfer form.

If the original invoice may be needed by post, please contact gpd2011@confedent.fi.

Cancellation terms, GPD Finland 2011

All the fees, except for the 100€ cancellation fee, will be refunded if the cancellations are made before/

by February 28, 2011. A refund of 50% will apply for the cancellations made before March 31, 2011. No refunds are offered after that date. Only written cancellations are accepted!

All fees refer to full conference rates, accompanying guest rates and conference dinner rates. This does not include rates for accommodation, tours and activities. They have their own separate terms and conditions.

The organizer reserves the right to make changes to the programme, tours, accommodation and limit the participation if necessary. The organizers cannot be held responsible for any last-minute changes to the programme, tours or accommodation. Please note that for organizational reasons, refunds will be made after the conference.

Book Accommodation on the registration form

To reserve and guarantee your hotel accommodation, a fee of 150€ will be charged in addition to the Participant Registration fee. The hotel reservation fee will be deducted from your total hotel fee which

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is to be settled upon departure from the hotel. The organizer has made block reservations in all major hotels in Tampere and individual or personal reservations will not be accepted. All participants should make their reservation from the block through the conference registration form. Reservations will be handled on a first-come, first-served basis. Please, book accommodation early. GPD can not guarantee rooms for late bookings.

The Conference Secretariat will confirm the hotel reservation. In the confirmation letter, you will be notified of the name and address of your hotel. The exact room rate will also be indicated in the confirmation letter. The Conference hotel rates are valid only for reservations made via the Conference registration form. Prices are valid until May 16, 2011.

If you cancel your participation in the conference by March 31, 2011, the hotel reservation fee will be refunded in full. All hotel rooms include a bath or shower. Prices quoted are per room, per night, including breakfast and VAT 23 %. Participants will make payment directly to the hotel upon check out

All cancellations must be done in writing to Confedent International: gpd2011@confedent.fi.

Visas, Invitations and Insurance

Finland requires a visa from persons travelling from some countries. The conference organizer is prepared to send official invitations to the delegates to be attached with the visa application. (The invitation will be sent only after the organizers have received full payment for the registration fees.)

The handling time of the visa application may take up to two months. Please note that a health insurance (30,000 Euros) must be valid and cover hospital and medical expenses. Proof of this must be presented at passport control upon arrival to Finland. All participants are requested to make their own arrangements concerning insurance.

For further information on Ministry for Foreign Affairs of Finland, please visit <http://formin.finland.fi>.

VAT refunds: visit www.vero.fi/english for more information on value added tax in Finland.

Liability

The Conference Organization and the Conference Registration Office acts as an agent only in securing hotels, transport and travel services and shall in no event be liable for acts or omissions in the event of injury, damage, loss, accident, delay and irregularity

of any kind what so ever during arrangements organized through contractors or the employees of such contractors in carrying out services.

Hotel and transportation services are subject to the terms and conditions under which they are offered to the public in general. The Conference Organization reserves the right to make changes where deemed necessary, without prior notice to parties concerned. All disputes are subject to Finnish law.

Conference language

The official language of the conference is English. Interpretation / translation into other languages, if provided, will be announced by the organizers.

Dress Code

Dress code will be informal for all conference sessions and most evening functions. Conference dinner is formal. Comfortable shoes and warmer clothing are recommended for the Farewell Party!

Note: The conference and the social program will be photographed and/or videotaped. The organizer has the right to use these photos and videos publicly for different marketing and promotion purposes, e.g. in glass industry magazines, GPD website, etc.

Conference Venues

Both venues are conveniently located within walking distance to the city centre and most of the conference hotels. Transportation will be arranged.

Tampere Hall

Address: Yliopistonkatu 55, Tampere

www.tampere-talo.fi

Venue for the following activities:

Registration, Opening Ceremony, all Conference sessions, Get Together Party, Poster Exhibition, Glass Expo, Energy Efficiency and Solar Park

University of Tampere

Address: Pinni B, Kanslerinrinne 1, Tampere

Venue for Workshops

Conference Secretariat

If you have any questions regarding registrations, payments and accommodation reservations, please contact:

CONFEDENT International Oy
Porkkalankatu 3, 00180 Helsinki, Finland
Tel: +358 9 5840 9350 Fax: +358 9 5840 9555
gpd2011@confedent.fi



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Registration Issues

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Glass EXPO & Energy and Solar Park

Ms. Mari Kuutti
mari.kuutti@gpd.fi | +358 50 465 5400

Workshops

Mr. Harri Laisi
harri.laisi@gpd.fi | +358 50 464 8811

Glass Performance Days

P. O. Box 25, 33731 TAMPERE, FINLAND
Tel +358 10 500 500 | Fax +358 10 500 6180

GPD China

May 9-10, 2011 | Shanghai, China
www.gpd.fi/china

GPD South America

2012
www.gpd.fi/same



HOTEL RESERVATIONS & REGISTRATION

for the GPD Conference, Workshops and Social activities at

www.gpd.fi/registration

Please make your hotel reservation with the conference registration!

If you have any questions regarding registrations, payments and accommodation reservations, please contact:

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China Glass

May 11-14, 2011



October 26-29, 2011



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