

Program Overview Thursday – May 17th

08:45 – 09:30	Registration & Coffee				Foyer
Plenary session	Chairs: Dr Christian Louter, Dr Freek Bos, Prof. Jan Belis				Collegezaal A
09:30 – 10:00	Opening words by Dr Christian Louter, Dr Freek Bos, Prof. Jan Belis Welcome by Prof. Peter Russell – Dean Faculty of Architecture Welcome by Prof. Rob Nijssen – Chair of Structural Design				
10:00 – 10:45	Keynote presentation: Ulrich Hamann , Foster & Partners				
10:45 – 11:00	Group photo				
11:00 – 11:30	Coffee break				Foyer
Parallel sessions	Collegezaal A	Frans van Hasselt	Commissiekamer 3	Senaatszaal	
11:30 – 12:30 pages 10 – 11	GLASS IN FACADES	ARCHITECTURAL DESIGN, GEOMETRIES & LIGHTING	STRENGTH & STABILITY	LAMINATED GLASS & INTERLAYER PROPERTIES	
12:30 – 14:00	Lunch				Foyer
Parallel sessions	Collegezaal A	Frans van Hasselt	Commissiekamer 3	Senaatszaal	
14:00 – 15:20 pages 12 – 13	PROJECTS & CASE STUDIES	JOINTS & FIXINGS & ADHESIVES	STRENGTH & STABILITY	NUMERICAL MODELLING & EXPERIMENTAL VALIDATION	
15:20 – 15:50	Coffee break				Foyer
Parallel sessions	Collegezaal A	Frans van Hasselt	Commissiekamer 3	Senaatszaal	
15:50 – 17:10 pages 14 – 15	PROJECTS & CASE STUDIES	JOINTS & FIXINGS & ADHESIVES	STRENGTH & STABILITY	HYBRID & COMPOSITE GLASS COMP.	
17:30 – 18:30 18:30 – 23:30	Boat trip takes delegates to the Conference dinner at Restaurant De Waag / Markt 11 / 2611 GP Delft Please note that separate registration for the boat trip & dinner is required.				

Program Overview Friday – May 18th

09:00 – 09:20	Coffee				Foyer
Parallel sessions	Collegezaal A	Frans van Hasselt	Commissiekamer 3	Senaatszaal	
09:20 – 10:40 pages 16 – 17	LAMINATED GLASS & INTERLAYER PROPERTIES	GLASS IN FACADES + IGU	CURVED & BENDED GLASS	PROJECTS & CASE STUDIES	
10:40 – 11:10	Coffee break				Foyer
Parallel sessions	Collegezaal A	Frans van Hasselt	Commissiekamer 3	Senaatszaal	
11:10 – 12:30 pages 18 – 19	STRENGTH & STABILITY	JOINTS & FIXINGS & ADHESIVES	HYBRID & COMPOSITE GLASS COMP.	NUMERICAL MODELLING & EXPERIMENTAL VALIDATION	
12:30 – 14:00	Lunch				Foyer
Parallel sessions	Collegezaal A	Frans van Hasselt	Commissiekamer 3	Senaatszaal	
14:00 – 15:00 pages 20 – 21	LAMINATED GLASS & INTERLAYER PROPERTIES	JOINTS & FIXINGS & ADHESIVES	ARCHITECTURAL DESIGN, GEOMETRIES & LIGHTING	STRUCTURAL GLASS DESIGN, PHILOSOPHY & STRUCTURAL SAFETY	
15:00 – 15:30	Coffee break				Foyer
Plenary session	Chairs: Dr Christian Louter, Dr Freek Bos Prof. Jan Belis				Collegezaal A
15:30 – 16:15	Keynote presentation Michael Ludvik , M. Ludvik Engineering				
16:15 – 17:00	Keynote presentation Augmented Reality: Application to In-Vehicle Navigation Christian Grünler , Daimler AG				
17:00 – 17:15	Closing words by Christian Louter, Freek Bos, Jan Belis				
17:15 – 18:00	Drinks				Foyer
21:00	Social gathering (at own expenses) – Café De Wijnhaven, Wijnhaven 22, Delft				

Parallel sessions Thursday Morning – May 17th

11:30 – 12:30

Room	Collegezaal A	Frans van Hasseltzaal
Theme	GLASS IN FACADES	ARCHITECTURAL DESIGN, GEOMETRIES & LIGHTING
Chair	<i>Chair: Dr Stephen Morse</i>	<i>Chair: Prof. Paulo Cruz</i>
11:30 – 11:50	Glass facades under seismic events and explosions - A novel distributed-TMD design concept for building protection <i>Chiara Bedon, Claudio Amadio</i>	Dematerialisation of the ruins: Glass as a promising restorative material for the consolidation of historic structures <i>Lida Barou, Faidra Oikonomopoulou, Telesilla Bristogianni, Fred Veer, Rob Nijse</i>
11:50 – 12:10	Investigating the Energy Efficiency, Environmental and Daylighting Performance of Coated Glazing <i>Nazanin Eisazadeh, Karen Allacker, Frank De Troyer</i>	Differentiation in architecture by professional designs and new materials <i>Emmanuel Barrois, Yvan Belletre, Artur Bechtloff</i>
12:10 – 12:30	Silicone Spandrel Glass Coatings: Mitigating Glass Breakage Risk from Thermal and Other Stresses <i>Chris Fronsoe, Timothy Krytenberg, Kris Vockler, John Swanson, Lawrence Carbary, Chris Barry, Stephanie Hoffman, George Torok, Scott Norville, Samir Blanchet</i>	Serrated glass facades. The influence of façade morphology on aesthetic quality <i>Marcin Brzezicki</i>
12:30 – 14:00	Coffee break Foyer	

Room	Commissiekamer 3	Senaatszaal	Room
Theme	STRENGTH & STABILITY	LAMINATED GLASS & INTERLAYER PROPERTIES	Theme
Chair	<i>Chair: Dr Mauro Overend</i>	<i>Chair: Prof. Jan Belis</i>	Chair
11:30 – 11:50	The Effect of Edge Processing in Thin Glass for Cold Bending Applications <i>Marco Cervio, Giovanni Muciaccia, Gianpaolo Rosati</i>	Sensitivity analysis for the determination of the interlayer shear modulus in laminated glass using a torsional test <i>Martin Botz, Michael Kraus, Geralt Siebert</i>	11:30 – 11:50
11:50 – 12:10	An Analysis of Glass Fracture Statistics <i>David Kinsella, Kent Persson</i>	Post-breakage tensile and bending response of laminated glass <i>Laura Galuppi, Gianni Royer Carfagni</i>	11:50 – 12:10
12:10 – 12:30	Repair of Soda-Lime-Silica Glass <i>Kyriaki Corinna Datsiou, Dominic Hall, Mauro Overend</i>	Research on Thin Glass-Polycarbonate Composite Panels <i>Sebastian Andrés Lopez, Thorsten Weimar</i>	12:10 – 12:30
12:30 – 14:00	Coffee break Foyer		12:30 – 14:00

Parallel sessions Thursday Afternoon – May 17th

14:00 – 15:20

Room	Collegezaal A	Frans van Hasseltzaal
Theme	PROJECTS & CASE STUDIES	JOINTS & FIXINGS & ADHESIVES
Chair	<i>Chair: Dr Freek Bos</i>	<i>Chair: Dr Martina Eliášová</i>
14:00 – 14:20	Cast Glass Components out of Recycled Glass: Potential and Limitations of Upgrading Waste to Load-bearing Structures <i>Telesilla Bristogianni, F. Oikonomopoulou, C. Justino de Lima, Frederic Veer, Rob Nijse</i>	Developments in GFRP Reinforced Bolted Joints in Glass <i>Mithila Achintha, Tudor Zirbo</i>
14:20 – 14:40	The glazing for the stairs in the refurbished Margherita Theatre in Livorno <i>Vincenzo Mamone, Gerardo Masiello, Luca Difonzo</i>	Numerical modelling of adhesive connections including cohesive damage <i>Chiara Bedon, Klára Machalická, Martina Eliášová, Miroslav Vokáč</i>
14:40 – 15:00	Building and Testing Lenticular Truss Bridge with Glass-Bundle Diagonals and Cast Glass Connections. <i>Ate Snijder, Rob Nijse, Christian Louter</i>	Laminated glass connection details: towards homogeneous material joints in glass <i>Philipp Eversmann, André Ihde</i>
15:00 – 15:20	Glass and Media Facades - Energy Refurbishment <i>Jasna Čikić Tovarović, Jelena Ivanović-Šekularac, Nenad Šekularac</i>	Experimental Investigation of Mortar Mechanical Properties for Glass Brick Masonry <i>Jiří Fila, Martina Eliášová, Zdeněk Sokol</i>
15:20 – 15:50	Coffee break Foyer	

Room	Commissiekamer 3	Senaatszaal	Room
Theme	STRENGTH & STABILITY	NUMERICAL MODELLING & EXPERIMENTAL VALIDATION	Theme
Chair	<i>Chair: Dr Stephen Morse</i>	<i>Chair: Dr Jens Henrik Nielsen</i>	Chair
14:00 – 14:20	Probability Distributions in the Glass Failure Prediction Model <i>Samir Blanchet, H. Scott Norville, Stephen M. Morse</i>	Calculation Methods of Glass Parapets in Aluminium Parapet Clamping Profiles <i>Youri Baidjoe, Bert van Lancker, Jan Belis</i>	14:00 – 14:20
14:20 – 14:40	Exploring Thin Glass Strength Test Methodologies <i>Francisco Oliveira Santos, Christian Louter, João Ramôa Correia</i>	Innovative Glass Recipes Containing Industrial Waste Materials <i>Clarissa Justino de Lima, Fred Veer, Oguzhan Çopuroglu, Rob Nijse</i>	14:20 – 14:40
14:40 – 15:00	A micro-mechanically motivated model for the strength of heat-treated glass <i>Antonio Bonati, Antonio Ochiuzzi, Gabriele Pisano, Gianni Royer-Carfagni</i>	Component Tests of Vitralock Installation System <i>Zdeněk Sokol, Martina Eliášová, Stanislav Polata</i>	14:40 – 15:00
15:00 – 15:20	Residual stress distribution in tempered glass with reground edges <i>Katharina Lohr, Bernhard Weller</i>	-	15:00 – 15:20
15:20 – 15:50	Coffee break Foyer		15:20 – 15:50

Parallel sessions Thursday Afternoon – May 17th

15:50 – 17:10

Room	Collegezaal A	Frans van Hasseltzaal
Theme	PROJECTS & CASE STUDIES	JOINTS & FIXINGS & ADHESIVES
Chair	<i>Chair: Prof. Rob Nijse</i>	<i>Chair: Dr Mauro Overend</i>
15:50 – 16:10	Revolving entrance doors - machines or structural elements? <i>Andreas Haese</i>	Edge-laminated Transparent Structural Silicone Adhesive (TSSA) Steel-to-Glass connections <i>Anna Ioannidou-Kati, Manuel Santarsiero, Christian Louter</i>
16:10 – 16:30	Stability of dry-stacked glass masonry arch bridges <i>Chris Noteboom, Mike Aurik, Ate Snijder</i>	Strength Evaluation and Failure Prediction of Bolted and Adhesive Glass / Steel Joints <i>Ioannis Katsivalis, Ole Thybo Thomsen, Stefanie Feih, Mithila Achintha</i>
16:30 – 16:50	All-glass entrance pavillion for an office building in Madrid <i>Carles Teixidor, Jordi Torres, Lidia Estupiñá</i>	Dimensioning of Elastic Adhesives Joints with Complex Geometries? A Systematic Approach beyond ETAG 002 <i>Thomas Scherer, Wolfgang Wittwer, Christian Scherer, Ernst Semar</i>
16:50 – 17:10	Wilsdruff Filter Factory - Example of the application of structural PVB films in the façade area <i>Michael Kothe</i>	Additive Manufacturing of Glass Components - Exploring the potential of glass connections by Fused Deposition Modeling <i>Matthias Seel, Robert Akerboom, Ulrich Knaack, Matthias Oechsner, Peter Hof, Jens Schneider</i>
End of presentations day 1		
17:30 – 18:30 19:00 – 22:30	Boat trip takes delegates to the Conference dinner at Restaurant De Waag / Markt 11 / 2611 GP Delft Please note that separate registration for the boat trip & dinner is required.	

Commissiekamer 3	Senaatszaal	Room	
STRENGTH & STABILITY	HYBRID & COMPOSITE GLASS COMPONENTS	Theme	
Chair	<i>Chair: Dr Christian Louter</i>	<i>Chair</i>	
	Thermally Curved Glass - Research and Standardisation of the Four-Point Bending Test <i>Paulina Bukieda, Michael Engelmann, Bernhard Weller, Michael Elstner</i>	Experimental investigation into the effects of membrane action for continuous reinforced glass beam systems <i>Kenny Martens, Robby Caspeepe, Jan Belis</i>	15:50 – 16:10
	Thermal Glass Stress Analysis - Design Considerations <i>Michaela Poláková, Steffen Schäfer, Michael Elstner</i>	Residual Load-bearing Capacity of Spannglass-Beams - Effect of Post-tensioned Reinforcement <i>Michael Engelmann, Bernhard Weller</i>	16:10 – 16:30
	Structural Analysis of Slender Glass Panel Subjected to Static and Impact Loading <i>Marcin Kozłowski, David Kinsella, Kent Persson, Jan Kubica, Jacek Hulimka</i>	Hybrid steel-glass cell: cold-twisting and buckling phenomena <i>Laura Galuppi, Pietro Di Biase, Benjamin Schaaf, Carl Richter, Benno Hoffmeister, Markus Feldmann, Gianni Royer Carfagni</i>	16:30 – 16:50
	A simplified design method for all-glass balustrades <i>Thomas Spyra, Tobias Herrmann</i>	Thermo-mechanical numerical modelling of structural glass under fire - Preliminary considerations and comparisons <i>Chiara Bedon, Christian Louter</i>	16:50 – 17:10
End of presentations day 1			
	Boat trip takes delegates to the Conference dinner at Restaurant De Waag / Markt 11 / 2611 GP Delft Please note that separate registration for the boat trip & dinner is required.		17:30 – 18 :30 18:30 – 23:30

Parallel sessions Friday Morning – May 18th

09:20 – 10:40

Room	Collegezaal A	Frans van Hasseltzaal
Theme	LAMINATED GLASS & INTERLAYER PROPERTIES	GLASS IN FACADES & INSULATING GLASS UNITS
Chair	<i>Chair: Dr Martina Eliasova</i>	<i>Chair: Dr Fred Veer</i>
09:20 – 09:40	Explicit Enriched Plate Model for Laminated Glass <i>Claude Boutin, Kevin Viverge, Frederique Sallet</i>	A linear formulation for the ULS design of glass elements under combined loads - Application to IGUs <i>Chiara Bedon, Claudio Amadio</i>
09:40 – 10:00	Combining solar control technologies for optimal performance <i>Wim Stevels, Matthias Haller</i>	Movable Thin Glass Elements in Façades <i>Jürgen Neugebauer, Markus Wallner-Novak, Tim Lehner, Christian Wrulich, Marco Baumgartner</i>
10:00 – 10:20	Laminated glass beams subjected to artificial solar radiation <i>Giovanna Ranocchiali, Fabio Sciurpi, Mario Fagone</i>	Spot Landing : Determining the Light and Solar Properties of Fritted and Coated Glass <i>Helen Rose Wilson, Michael Elstner</i>
10:20 – 10:40	Experimental investigation on the impact resistance of laminated glass with various glass make-ups <i>Xinger Wang, Jian Yang</i>	Sensitivity Study on Climate Induced Internal Pressure within Cylindrical Curved IGUs <i>Minxi Bao, Sam Gregson</i>
10:40 – 11:10	Coffee break Foyer	

Room	Commissiekamer 3	Senaatszaal	Room
Theme	CURVED & BENDED GLASS	PROJECTS & CASE STUDIES	Theme
Chair	<i>Chair: Dr Stephen Morse</i>	<i>Chair: Prof. Rob Nijse</i>	Chair
09:20 – 09:40	The Effects of Cold Warping on Glass Stiffness <i>Austin Bensed</i>	Interlocking glass spiral as building structure of the watch museum "La Maison des Fondateurs" <i>Josua Villiger, Philippe Willareth, Florian Doebbel, Viviana Nardini</i>	09:20 – 09:40
09:40 – 10:00	Ahead of the Curve: Innovative Cold Bent & Insulated Glass Entry Wall <i>Terry McDonnell, Connor Bruns, Oliver Lahr, Patrice Couret</i>	Glass at the Intersection of Art and Engineering <i>David Bott</i>	09:40 – 10:00
10:00 – 10:20	Mistral Tower: Value of System Design, Manufacturing and Installation in Cold Bent SSG Units <i>Viviana Nardini, Jonas Hilcken</i>	Fully Glazed Façade Conception for a Villa with special and Big Size Glass Panels <i>Raul Corrales</i>	10:00 – 10:20
10:20 – 10:40	Flexible Transparency - a study on adaptive thin glass façade panels <i>Rafael Ribeiro Silveira, Christian Louter, Tillmann Klein</i>	Zaryadye park, glass grid shell roof <i>Gennady Vasilchenko-Malishev, Jack Hawker, Stanislav Chesnokov</i>	10:20 – 10:40
10:40 – 11:10	Coffee break Foyer		10:40 – 11:10

Parallel sessions Friday Morning – May 18th

11:10 – 12:30

Room	Collegezaal A	Frans van Hasseltzaal
Theme	LAMINATED GLASS & INTERLAYING PROPERTIES	JOINTS & FIXINGS & ADHESIVES
Chair	<i>Chair: Dr Martina Eliasova</i>	<i>Chair: Prof. Jan Belis</i>
11:10 – 11:30	Material properties of polymeric interlayers under dynamic loading with respect to the temperature <i>Tomáš Hána, Miroslav Vokáč, Klára Machalická, Martina Eliášová</i>	Permanent hydrothermal exposure on load-bearing adhesives in glass constructions <i>Elisabeth Aßmus, Christian Popp, Bernhard Weller</i>
11:30 – 11:50	Investigations on the thermorheologically complex material behaviour of the laminated safety glass interlayer Ethylene-Vinyl-Acetate <i>Miriam Schuster, Michael Kraus, Jens Schneider, Geralt Siebert</i>	Dimensioning silicone joints used in bomb blast resistant facade systems <i>Pierre Descamps, Sebastien Durbecq, Valerie Hayez, Mahmoud Chabih, Georgette VanWassenhove</i>
11:50 – 12:10	Effect of Interlayer Mechanical Properties on Quasi-static and Free Vibration Response of Laminated Glass <i>Alena Zemanová, Tomáš Janda, Jan Zeman, Jaroslav Schmidt, Michal Šejnoha</i>	On Cavitation in Transparent Structural Silicone Adhesive - TSSA <i>Michael Drass, Vladimir A. Kolupaev, Jens Schneider, Stefan Kolling</i>
12:10 – 12:30	Performance Comparison of Structural Interlayers <i>Jennifer Schneider</i>	Silicone Joint Dimensioning Calculation Methods <i>Pierre Descamps, Valerie Hayez</i>
12:30 – 14:00	Lunch break Foyer	

Room	Commissiekamer 3	Senaatszaal	Room
Theme	HYBRID & COMPOSITE GLASS COMPONENTS	NUMERICAL MODELLING & EXPERIMENTAL VALIDATION	Theme
Chair	<i>Chair: Dr Christian Louter</i>	<i>Chair: Dr Jens Henrik Nielsen</i>	Chair
11:10 – 11:30	Structural Considerations on Timber-Glass Composites at Fire Scenarios <i>Marcin Kozłowski, Peter Lenk, Michael Dorn, Dániel Honfi, Johan Sjöström</i>	Experimental Analysis on the Glass-Interlayer System in Glass Masonry Arches <i>Mike Aurik, Ate Snijder, Chris Noteboom, Rob Nijse, Christian Louter</i>	11:10 – 11:30
11:30 – 11:50	A numerical and experimental approach to cold-bent timber-glass composite elements <i>Felix Nicklisch, Tim Greulich, Bernhard Weller</i>	Thermo-mechanical investigation of novel GFRP-glass sandwich facade components <i>Chiara Bedon, Carlos Pascual Agullo, Alessandra Luna-Navarro, Mauro Overend, Fabio Favoino</i>	11:30 – 11:50
11:50 – 12:10	Parametric Numerical Study of Timber-Glass Walls <i>Boštjan Ber, Gregor Finžgar, Miroslav Premrov, Andrej Štrukelj</i>	Alternative approaches for the Numerical Simulation of Glass Structural Beams Reinforced with GFRP Laminates <i>Jorge Rocha, Eduardo Pereira, José Santa-Cruz</i>	11:50 – 12:10
12:10 – 12:30	Hybrid GLASS-Steel Stele (HYGLASS): preliminary mechanical study on a smart tetrahelical cantilevering tall structure <i>Maurizio Froli, Francesco Laccone</i>	Optimizing Glass Design: The Role of Computational Wind Engineering & Advanced Numerical Analysis <i>Timothy Brewer, Eric Sammarco</i>	12:10 – 12:30
12:30 – 14:00	Lunch break Foyer		12:30 – 14:00

Parallel sessions Friday Afternoon – May 18th

14:00 – 15:00

Room	Collegezaal A	Frans van Hasseltzaal
Theme	STRENGTH & STABILITY	JOINTS & FIXINGS & ADHESIVES
Chair	<i>Chair: Dr Fred Veer</i>	<i>Chair: Dr Mauro Overend</i>
14:00 – 14:20	Experimental investigation into the fragment size of tempered glass <i>Navid Pourmoghammad, Jens Schneider</i>	Mechanical Behaviour of Transparent Structural Silicone Adhesive (TSSA) Steel-to-Glass Laminated Connections Under Monotonic and Cyclic Loading <i>Anna Ioannidou-Kati, Manuel Santarsiero, Peter de Vries, Sofia Teixeira De Freitas, Rob Nijse, Christian Louter</i>
14:20 – 14:40	Development of a Mobile Device for the Evaluation of the current in situ stress Condition in Glass <i>Benjamin Schaaf, Björn Abeln, Carl Richter, Markus Feldmann, Marcus Glaser, Jörg Hildebrand, Jean Pierre Bergmann</i>	Investigations on Linear Silicone Joints for Glass-Metal Elements with Composite Structural Behavior <i>Vlad Alexandru Silvestru, Oliver Enghardt, Jens Schneider</i>
14:40 – 15:00	A re-evaluation of the physiochemistry of Glass on the basis of recent developments and its relevance to the glass industry <i>Frederic Veer, Telesilla Bristogianni, Clarissa Justino de Lima</i>	Mechanical properties of continuous adhesive glass-steel connections under monotonic and cyclic loading <i>Bert Van Lancker, Wouter De Corte, Jan Belis</i>
15:00 – 15:30	Coffee break Foyer	
15:30 – 17:15	Plenary session (see program page 11) Collegezaal A	
17:15 – 18:00	Drinks - Foyer	
21:00	Social gathering (at own expenses) – Café De Wijnhaven – Wijnhaven 22 – Delft	

Room	Commissiekamer 3	Senaatszaal	Room
Theme	ARCHITECTURAL DESIGN, GEOMETRIES & LIGHTING	STRUCTURAL GLASS DESIGN PHILOSOPHY & STRUCTURAL SAFETY	Theme
Chair	<i>Chair: Prof. Paulo Cruz</i>	<i>Chair: Dr Freek Bos</i>	Chair
14:00 – 14:20	landscape, resolution laser treated glass installation at Grundbuchamt Ravensburg, Germany 2017 <i>Angelika Weingardt</i>	Energy-based approach for dissipative structural glass system in seismic regions <i>Manuel Santarsiero, Kosmas Moupagitsoglou</i>	14:00 – 14:20
14:20 – 14:40	Glowing glass <i>Shawn Ives, Stefan Reich, Christian Pfützte</i>	Hybrid Glass Structures - Design Philosophy and Generalized Checking Procedures <i>Peter Lenk, Chris Noteboom, Mark Arkininstall</i>	14:20 – 14:40
14:40 – 15:00	A novel, demountable structural glass system out of dry-assembly, interlocking cast glass components <i>Faidra Oikonomopoulou, Telesilla Bristogianni, Lida Barou, Erwin Jacobs, Giulia Frigo, Frederic Veer, Rob Nijse</i>	Are laminated security glazing standards still adapted to the current demand ? <i>Louis Dellieu, Perrine Leybros, Julien Jeanfils</i>	14:40 – 15:00
15:00 – 15:30	Coffee break Foyer		15:00 – 15:30
15:30 – 17:15	Plenary session (see program page 11) Collegezaal A		15:30 – 17:15
17:15 – 18:00	Drinks - Foyer		17:15 – 18:00
21:00	Social gathering (at own expenses) – Café De Wijnhaven – Wijnhaven 22 – Delft		21:00

We wish you an enjoyable conference!



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