

Sunday, October 22nd



**2017 ICG Annual Meeting & 32nd Şişecam Glass Symposium
Scientific Program**

15:00-18:00	REGISTRATION
16:00-18:00	CTC MEETING, Hall: Cibali 2
16:00-18:00	TC 14 MEETING, Hall: Kasımpaşa 3

Monday, October 23rd



2017 ICG Annual Meeting & 32nd Şişecam Glass Symposium Scientific Program

07:30-08:30	REGISTRATION
08:30-09:30	Welcome/Opening Ceremony
09:30-10:00	Award Ceremony
10:00-10:40	Hubertus Böhm <i>How the Glass Industry takes advantage of Digitalization</i>
10:40-11:10	Coffee Break
Plenary Session, Hall: Sadabad Auditorium Chair: Şener Oktik	
11:00-11:30	Peng Shou, Pan Jinggong <i>Chinese Glass Industry Development</i>
11:30-12:00	Julian Jones <i>Bioglass: from Hench to bouncy hybrids</i>
12:00-12:30	Lothar Wondraczek <i>Smart glasses in large-area fluidic windows and suspended particle devices for facade</i>
12:30-14:00	Lunch
Parallel Sessions	
GLASS STRUCTURE & PROPERTIES Hall: HASKÖY Chair: Hiroyuki Inoue	
14:00-14:30	Hiroyuki Inoue , Takayoshi Koizumi, Yoshihiro Watanabe, Atsunobu Masuno, <i>Invited Speaker</i> <i>Fluorescence and structure of divalent Eu ions in borate glasses</i>
14:30-14:50	Yevgeniy Sgibnev , Dmitriy Marasanov, Nikolay Nikonorov, Alexander Ignatiev <i>Luminescent properties of silver ion-exchanged aluminosilicate glass doped with Eu³⁺ ions</i>
14:50-15:10	Elena Kolobkova , Bo Min Dinh, Nikolay Nikonorov <i>Fluorine phosphate glasses with high fluorine concentration doped with Er³⁺-Yb³⁺ and Nd³⁺ ions</i>
15:10-15:30	Atsunobu Masuno , Yasuhiro Watanabe, Masaki Azuma, Yutaka Yanaba, Hiroyuki Inoue <i>Optical and magnetic properties of binary rare earth borate glasses</i>
15:30-15:50	Jong Heo , Wonji Park, Woon Jin Chung <i>Analysis of the rare-earth ion clusters in glasses and their effects on the optical properties of PbS quantum dots</i>
COATINGS Hall: KASIMPAŞA 1-2 Chair: Reha Akçakaya	
14:00-14:30	Claes-Göran Granqvist, Invited Speaker <i>Electrochromic Glazing for Energy Efficient Buildings: Fundamentals, Current Technology, Recent Progress and Prospects</i>

14:30-15:00	Bernd Szyska, Invited Speaker <i>From Bytes to Atoms – Modelling of Thin Film Processes for Large Area Glazing</i>
15:00-15:30	Peter Sieck, Invited Speaker <i>Modern Large Area Glass Coatings by Magnetron Sputtering</i>
15:30-15:50	Yasemin Demirhan , Hurriyet Yüce, Merve Akkaya, Hakan Altan, Lütfi Özyüzer, Gülnur Aygün <i>Modification of Tunable THz Filters Fabricated from Vanadium Dioxide Thin Films</i>
15:50-16:10	Ashok Mohan Adur <i>Using ZeMac® Copolymers To Modify Surface Chemistry of Glass Fibers to Improve Performance of GF-Reinforced Polyamides</i>
ION EXCHANGE / Chemical Tempering KASIMPAŞA 4-5 Chair: Cemil Tokel	
14:00-14:30	Guglielmo Macrelli, Invited Speaker <i>Advances in mathematical modeling of chemically strengthened glass by ion exchange: concentration depth profile and residual stress</i>
14:30-14:50	Peter Sundberg, Lina Grund Bäck , Robin Orman, Simon Johnson, Jonathan Booth, Stefan Karlsson <i>Novel thermo-chemical strengthening of glass for solar energy applications and its impact on the physical properties</i>
14:50-15:10	Salih Erserin , Aslı Özel, Duygu Güldiren, İpek Erdem, Süheyla Aydın <i>Strengthening of Soda Lime Glasses Using Molten Salt Bath and Salt Paste Applications via Ion Exchange</i>
15:10-15:30	İpek Erdem , Duygu Güldiren, Süheyla Aydın <i>Variations in the Application Methods of Ion Exchange for Chemical Strengthening Purposes</i>
15:30-15:50	Meryem Sarıgüzel , Melis Can Özdemir Yanık, Yusuf Öztürk, Esin Günay <i>Characterization of Silver Nanoclusters in Soda Lime Silicate Glass Developed by Ion Exchange Process</i>
FURNACE MODELLING & SENSORS BALAT Chair: Abdullah Kılınç	
14:00-14:30	Jörg Leicher, Invited Speaker <i>The Impact of Higher Hydrogen Concentrations in Natural Gas on Industrial Combustion Processes</i>
14:30-14:50	Bruno Malphettes , Fatih Mehmet Güçlü, Çağlar Altun, Michel Gaubil, Isabelle Cabodi, Thibaut Champion, Hazal Bal <i>Glass furnace regenerators: Benefits of design optimization and feedback from industrial experience.</i>
14:50-15:10	Burçin Gül , Merve Durubal <i>A Numerical Investigation for the Effect of the Electric Boosting in an Oxy Fuel Fired Glass Fiber Furnace</i>
15:10-15:30	Faizan P. Siddiqui , Kaan Menekşedağ , Altuğ Melik Başol, Pinar Mengüç, Adnan Karadağ, <i>Towards Real-Time Continuous Annealing Furnace Simulations via Hybrid GPU - CPU Approach</i>
15:30-15:50	Marcela Jebavá , Lubomír Němec, Jiří Brada <i>Improvements of glass melt flow in container furnace</i>

Monday, October 23rd



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	BIOMATERIALS CİBALI 1 Chair: Julian Jones
14:00-14:20	<u>Ayşe Özyuğuran Arifoğlu</u> , <u>Ayşen Aktürk</u> , <u>Özlem Tuğçe Şahin</u> , <u>Sadriye Küçükbayrak</u> <i>Comparison of 3D scaffolds containing Cu-doped bioactive glass and Sr-doped bioactive glass with Cu nanoparticles</i>
14:20-14:40	<u>Ayşen Aktürk</u> , <u>Melek Erol Taygun</u> , <u>Gültekin Göller</u> , <u>Sadriye Küçükbayrak</u> <i>An optimization study to fabricate fibrous nanocomposite scaffolds containing silver nanoparticles and bioactive glass</i>
14:40-15:00	<u>Azade Yelten</u> , <u>Suat Yılmaz</u> <i>Preparation and Characterization of Alumina-Hydroxyapatite-Bioactive Glass Composites</i>
16:00-16:30	Coffee Break
16:00-19:00	CTC BUSINESS MEETING Hall: MARMARA
16:30-17:30	PANEL: EU ENVIRONMENTAL ISSUES Hall: Sadabad Auditorium Panelists: <ul style="list-style-type: none">• Adeline Farrelly (FEVE),• Felice Simonelli (CEPS),• Katalin Zaim (Şişecam),• Yüksel Soykut (Paşabahçe),• Haluk Erdem (Paşabahçe),• Tunç Görüney (Şişecam)
17:30-18:40	Parallel Sessions
	GLASS STRUCTURE & PROPERTIES Hall: HASKÖY Chair: Mustafa Oran
17:30-17:50	<u>Shinji Kohara</u> , <u>Osami Sakata</u> , <u>Koichi Tsuchiya</u> , <u>Yohei Onodera</u> , <u>Shuta Tahara</u> , <u>Yasuaki Hiraoka</u> <i>Understanding diffraction patterns from glass, liquid, and amorphous materials</i>
17:50-18:10	<u>Ondrej Gedeon</u> , <u>Tadeas Gavenda</u> , <u>Karel Jurek</u> <i>Model glasses irradiated with electron – macroscopic and structure relations</i>
18:10-18:30	<u>Shigeki Sawamura</u> , <u>Rene Limbach</u> , <u>Lothar Wondraczek</u> <i>Lateral deformation and scratching of compacted silica glasses</i>
	COATINGS Hall: KASIMPAŞA 1-2 Chair: Koichi Suzuki
17:30-18:00	<u>Koichi Suzuki</u> , <i>Invited Speaker</i> <i>Noteworthy dry coating technologies for large area & high volume glass related products</i>
18:00-18:20	<u>Jens Birch</u> , <u>Bo Jonson</u> , <u>Per Eklund</u> , <u>Sharafat Ali</u> , <i>Synthesis and properties of vitreous thin films based on M2+ or M3+ modified silicon oxynitrides</i>

18:20-18:40 Özge Bayraklı, Hasan Hüseyin Güllü, Makbule Terlemezoglu, Mehmet Parlak,
Optimization of the fabrication process for Al-doped ZnO thin films on soda lime glass substrates by thermal heating

ION EXCHANGE / Chemical Tempering

KASIMPAŞA-4,5

Chair: Süleyman Koç

17:30-17:50 Berkel Kayaçan, Caner Kayaalp, Nahide Özben, Pelin Akkaya, Cevher Tol, Burak Okan, Duygu Güldiren, Semin Atılğan, Burcu Öğüt, Lukas Simurka, Erdem Atar, Miray Çelikbilek Ersundu, İlkay Sökmen

Ion exchange strengthening of glasses: Influence of glass composition and thickness

17:50-18:10 Melis Can Özdemir Yanık, Meryem Sarıgüzel, Yusuf Öztürk, Esin Günay
Effect Of Silver-Sodium Ion Exchange On Mechanical And Surface Properties Of Soda Lime Silicate Glass

FURNACE MODELLING & SENSORS

BALAT

Chair: Matthew Hyre

17:30-18:00 Mathew Hyre, *Invited Speaker*
Progress and Limitations to Glass Container Forming Modelling for Virtual Sampling and Mold Design

18:00-18:20 Hazal Özcan
A Numerical Investigation of Thermal Tempering of Deep Hollow Glassware

18:20-18:40 Adrià Biosca Mecías, Salvador Borrós, Vicenç Pedret Clemente, Andrés-Amador García Granada
Polyflow validation of gob drop test

OPTO-ELECTRONICS

CİBALI 1

Chair: Tunç Görüney

17:30-17:50 Martin Mika, Frantisek Lahodny, Kristyna Rysova
Electro-optic glass for infrared modulators

17:50-18:10 Suat Kurt, Syed Sultan Shah Bukhari, Ali Serpengüzel
Chalcogenide Glass based Integrated Photonics

18:10-18:30 Jan Mrazek, Ivan Kasik, Michal Kamradek, Jan Aubrecht, Ondrej Podrazky, Ivo Barton, Vlastimil Matejec, Pavel Peterka
Sol-gel route to holmium-doped SiO₂-GeO₂ glasses for photonic applications

19:00 Welcome Reception, Sadabad Foyer

Tuesday, October 24th



2017 ICG Annual Meeting & 32nd Şişecam Glass Symposium Scientific Program

08:00-08:30	EBRD Panel: Sustainable Energy Finance through TurSEFF Programme SADABAD AUDITORIUM Dario Dilucia La perna
Parallel Sessions	
GLASS STRUCTURE & PROPERTIES Hall: HASKÖY Chair: Dusan Galusek	
08:30-09:00	Dusan Galusek, Invited Speaker <i>Crystallization Of Aluminate And Aluminosilicate Glasses</i>
09:00-09:20	Claudia Gonçalves, Raphaël Mereau, Eric Furet, Michaël Deschamps, Laurent Le Pollès, Claire Roiland, Pierre Florian, Lila Bouëssel du Bourg, Virginie Nazabal, Catherine Boussard-Pledel, Marc Dussauze, Bruno Bureau <i>Telluride Glasses as Materials For Far-Infrared Applications: A Theoretical and Spectroscopic Investigation</i>
09:20-09:40	Neşe Güngör, Mustafa Alevli <i>Optical properties of GaN and InN on quartz grown by hollow-cathode plasma-assisted atomic layer deposition</i>
09:40-10:00	Merve Kutluğ, Duygu Güldiren, Gürkan Yiğiter, Fehiman Akmaz <i>Characterization Studies on Selenium Retention in Soda Lime Silicate Glasses</i>
COATINGS Hall: KASIMPAŞA 1-2 Chair: Hong Wang	
08:30-09:00	Hong Wang, Invited Speaker <i>High performance solar heat conversion coatings with CrNxOy composite absorbing layer</i>
09:00-09:20	Turgay Coruhlu, Necdet Aslan, Kenan Şentürk, Tuba Şen <i>The Observation of Surface Plasmon Resonance Effect on ITO-Titanium-ITO Multilayer Thin Films on Glass</i>
09:20-09:40	Elmira Ryabova, Alexey Zorov <i>Non-metallic Solar Heat Control Coating for Architectural and Automotive Windows</i>
09:40-10:00	Lukas Simurka, Tuncay Turutoğlu, Gence Bektaş, Radim Ctvrtlik, Klaus Bange, <i>Mechanical properties of sputtered oxide thin films deposited on glass</i>
GLASS PRODUCTION (GLASS TREND) KASIMPAŞA 4-5 Chair: Anne-Jans Faber	
08:30-08:50	Erik Muijsenberg <i>Advantages of An Expert System Full Automatic Control Of Glass Feeders</i>
08:50-09:10	Sandra Fischer, Rongxing Bei, Joaquin de Diego <i>Refractory application for extreme firing condition in the regenerator of glass melting furnaces</i>

09:10-09:30	Mark Bennett <i>Infrared Temperature Measurement in the Glass Melt Tank</i>
09:30-09:50	Luc Jarry, Xavier Paubel, Taekyu Kang, Tunç Görüney, Neşet Arzan <i>Combustion with oxygen and natural gas preheated at high temperature: latest results and new development</i>
ENERGY & ENVIRONMENT BALAT Chair: Nikola Favaro	
08:30-09:00	Nikola Favaro, Invited Speaker <i>Glass, Emissions and Energy in Europe: an overview</i>
09:00-09:30	Pınar Mengüç, Invited Speaker <i>Radiation Transfer For Glass & With Glass</i>
09:30-09:50	Terutaka Maehara, Takeshi Yamazaki, Yoji Doi <i>Preheating of glass batch briquette</i>
09:50-10:10	Alessandro Cortopassi <i>All new "OMN" Combustion system for feeders</i>
08:00-10:30	ICG Steering Committee Meeting CİBALI 1
08:30-10:10	ION EXCHANGE WORKSHOP, GUGLIELMO MACRELLI MARMARA
08:30-10:10	TC 02 MEETING CİBALI 2
10:10-10:40	Coffee Break
Parallel Sessions	
GLASS STRUCTURE & PROPERTIES Hall: HASKÖY Chair: Cristina Siligardi	
10:40-11:10	Cristina Siligardi, Invited Speaker <i>Luminescent heavy glasses for hadron calorimeter</i>
11:10-11:30	Melis Gökçe, Deniz Koçyiğit Uslu, Gözde Burgaz, Aytaç Gürhan Gökçe <i>Samarium doped B2O3-GeO2-Gd2O3 glasses: Structural, optical and photoluminescence characteristics</i>
11:30-11:50	Sena Dayioğlugil, Nuri Solak <i>Improvement of Persistent Phosphorescence Properties of Zinc Borosilicate Glasses With The Addition of Rare Earths</i>
11:50-12:10	Michal Kamrádek, Jan Aubrecht, Pavel Peterka, Ondřej Podrazký, Pavel Honzátka, Jakub Cajzl, Jan Mrázek, Václav Kubeček, Ivan Kašík <i>Spectroscopic study of silica optical fibers doped with holmium and thulium</i>

COATINGS
 Hall: KASIMPAŞA 1-2
 Chair: Serkan Şahin

- 10:40-11:00 Kanit Tapasa, Usanee Pantulap, Ekarat Meechoowas, Parida Jumpeerueng
Synthesis of TEOS-SiO₂-OTES Film for Enhancing the Hydrophobic Property and Weathering Durability of Float Glass
- 11:00-11:20 Fatma Beyza Yedikardeş, Refika Budakoğlu, Esra Özkan Zayim
Preparation and characterization of scratch and wear resistant anti-bacterial hybrid coatings by sol-gel method
- 11:20-11:40 Anıl Özen, Lukas Simurka, Ayşegül Yörür Yıldız, Haluk Erdem, Ferdi Keskin, Umut Enkara, Aslı Topak, Melis Özbirlik, Sevgi Kes
Golden Touch of MIDAS: Development of mythology inspired decorated glass that change color via interference effect
- 11:40-12:00 Eren Özmen
Hydrophobic and Oleophobic Glass Coatings for Using At High Temperatures

GLASS PRODUCTION (GLASS TREND)
 KASIMPAŞA 4-5
 Chair: Sven Roger Kahl

- 10:40-11:00 Anne Jans Faber, O.S. Verheijen
Routes to CO₂ neutral glass melting
- 11:00-11:20 Estella Alejandro
Improving batch caking and melting properties by using calcined lime. An industrial experience
- 11:20-11:40 Hande Sesigür, Mustafa Oran, Banu Arslan, Gülin Demirok
Fining: impact of sodium sulphate and anthracite in soda- lime silicate glass
- 11:40-12:00 Jaroslav Klouzek, Miroslava Hujova, Richard Pokorny, Seungmin Lee, Joseph Traverso, Michael Schweiger, Albert Kruger, Pavel Hrma
Gas Evolved Reactions during Conversion of Nuclear Waste Melter Feed to Glass

REFRACTORIES
 BALAT
 Chair: Rongxing Bei

- 10:40-11:00 Rongxing Bei, Jean-Pierre Meynckens
Activities of TC 11 - Materials for Furnaces
- 11:00-11:20 Simone Tiozzo, Stefano Sanchetti
Refractory materials in the Global Market: how to asses quality and defects generation potential
- 11:20-11:40 Melih Üstün, E. Burak İzmirlioğlu
Applied Performance Tests of Various Refractory Types for Accurate Selection in Designing Glass Furnaces

FIBER GLASSES
 CİBALI 1
 Chair: Davide Pico

- 10:40-11:10 Davide Pico, *Invited Speaker*
In situ thermoplastic coating of melt spun glass fibres

- 11:10-11:40 Bekir Karasu, *Invited Speaker*
Investigations On Reinforcing Concrete (Gfrc) Materials With Smfmzs (SrO-Mn₂O₃-Fe₂O₃-MgO-ZrO₂-SiO₂) System Glass Fibres
- 11:40-12:00 Gözdem Dittel, Till Arne Quadflieg, Andreas Koch, Thomas Gries
Textile reinforcements made of alkali resistant glass rovings in concrete structures

- 12:00-12:20 Aref Cevahir
Fiber Reinforced Thermoplastic Polymers with Superior Properties (LFT)

GLASS PROCESSING
 MARMARA
 Chair: Jorma K. Vitkala

- 10:40-11:10 Bertrand Poumellec, *Invited Speaker*
Femtosecond laser induced crystallization from Glasses
- 11:10-11:40 Jorma K. J. Vitkala, *Invited Speaker*
Worldwide Glass Market and Trends – summary from GPD 2017
- 11:40-12:00 Hamit Kalaycıoğlu, Ö. Akçaalan, P. Elahi, P. Deminsky, Ş.G. Karamuk, F. Ömer İlday
Ablation-Cooled Laser-Material Removal And Its Application To Glass Cutting
- 12:00-12:20 Serkan Çakır
Expert Optical Coating Inspection Solutions

TC 02 MEETING

CİBALI-2

- 12:30-14:00 Lunch

The William R. Prindle Memorial Session

Hall: Sadabad Auditorium

Alicia Duran

President Elect, Spain

Welcome and Program Summary

Laudations

Manoj Choudhary

ICG President, USA

L. David Pye

ICG President, USA (1997 - 2000)

Helmut Schaeffer

ICG President, Germany (2000 - 2003)

Alev Yaraman

ICG President, Turkey (2003 - 2006)

Fabiano Nicoletti

ICG President, Italy (2009 - 2012)

Alicia Duran

Closing remarks

- 14:00-15:30

- 15:30-16:00 Coffee Break

Tuesday, October 24th



2017 ICG Annual Meeting & 32nd Şişecam Glass Symposium Scientific Program

15:45-18:45	ICG COUNCIL MEETING Hall: Marmara
16:00-17:30	Parallel Sessions
	GLASS STRUCTURE & PROPERTIES Hall: HASKÖY Chair: Nuri Solak
16:00-16:20	<u>Mustafa Ünal</u> , Aydın Tankut, Raşit Turan <i>A Light Trapping Method For Thin Film Solar Cells: Aluminum Induced Glass Texturing</i>
16:20-16:40	<u>Dmitry K. Tagantsev</u> , Andrey A. Lipovskii, Il'ya V. Reshetov, Valentina V. Zhurikhina <i>The origin of the violation of charge conservation law in glass poling-depoling process</i>
16:40-17:00	<u>Kıvanç Güngör</u> , Manoj Sharma, Aydan Yeltik, Murat Olutas, Burak Guzelturk, Yusuf Kelestemur, Talha Erdem, Savas Delikanli, James R. McBride, Hilmi Volkan Demir <i>Luminescent Solar Concentrators Made of Near-Unity Efficient Copper-Doped Semiconductor Nanocrystals between Glasses</i>
	GLASS SURFACE TECHNOLOGIES Hall: KASIMPAŞA 1-2 Chair: İlkey Sökmen
16:00-16:20	<u>Andrey A. Lipovskii</u> , Igor V. Reduto, Alexandre N. Kamenskii, Alexey V. Redkov, Dmitri K. Tagantsev, Valentina V. Zhurikhina <i>2D structuring of glass surface: peculiarities of thermal poling and chemical etching</i>
16:20-16:40	<u>Semin Atılğan</u> , Ezgi Deniz Biçer, Esra Duman, Emel Mercan, İlkey Sökmen, Emin Burak İzmirlioğlu <i>Effective Cleaning Solution for Corroded Bottles</i>
16:40-17:00	<u>Ezgi Deniz Biçer</u> , Emel Mercan, Lukas Simurka, Hasan İsmail, Tuncay Turutoğlu, İlkey Sökmen <i>Effect of dealkalization process on float glass surface</i>
17:00-17:20	<u>Gamze Atak</u> <i>All-Solid-State Electrochromic Device</i>
	GLASS PRODUCTION (GLASS TREND) KASIMPAŞA 4-5 Chair: Oscar Verheijen
16:00-16:20	<u>Arnaldo Moreno</u> <i>Factors Affecting Frit Solubility in Glaze Suspensions</i>
16:20-16:40	<u>Stef Lessmann</u> <i>Methods and tools to study crown corrosion in glass furnaces</i>
16:40-17:00	<u>Sven-Roger Kahl</u> , Maarten den Heijer, Bert Kraaiveld <i>Thermagy (R) a new way to recover waste heat from glass melting furnaces</i>
17:00-17:20	<u>W.Kuhn & A. Reynolds</u> <i>Oxy-combustion tanks with low crown design for flue gas guidance above batch blankets: advantages and risks</i>
17:20-18:40	GLASS TREND COUNCIL MEETING

	NUCLEATION & CRYSTALLIZATION BALAT Chair: Melek Erol Taygun
16:00-16:20	<u>G. Gorni</u> , R. Balda, J. Fernández, J.J. Velázquez, L. Pascual, A. Durán, <u>M.J. Pascual</u> <i>Up-Conversion emission in Er-Yb doped transparent oxyfluoride nano-glass-ceramics</i>
16:20-16:40	<u>Ekarat Meechoowas</u> , Benjamon Petchareanmongkol, Usanee Pantulap, Kanit Tapasa <i>The effect of zirconium and lithium on crystallization of glass-ceramics in soda-lime silicate system</i>
16:40-17:00	<u>Maziar Montazerian</u> , Mina Eilaghi, Edgar Dutra Zanotto <i>4-decade quest for tough bioactive glass-ceramics</i>
17:00-17:20	<u>Mrinmoy Garai</u> , Shibayan Roy <i>Microwave Heat-treated Crystallization and Microstructure of ZrO₂ Containing SiO₂-MgO-Al₂O₃-K₂O-B₂O₃-F Glass-ceramics</i>
	NUCLEAR WASTE VITRIFICATION CİBALI 1 Chair: Burak İzmirlioğlu
16:00-16:30	<u>Russell J Hand</u> , Daniel J Backhouse, Claire Utton, Claire L Corkhill, Invited Speaker <i>Durability of nuclear waste glasses under high pH conditions</i>
16:30-16:50	<u>Pavel Hrna</u> , Jaroslav Kloužek, SeungMin Lee, Richard Pokorny, Miroslava Hujova, Michael Schweiger, Albert Kruger <i>High-level waste vitrification: balance of oxygen</i>
16:50-17:10	<u>Mevlüt Karabulut</u> <i>Iron phosphate based glasses as alternative host matrices for nuclear waste vitrification</i>
17:10-17:30	<u>Tetsuji Yano</u> , Tetsuo Kishi <i>Ionic conductivity of borosilicate glass and melt containing simulated high-level radioactive waste elements</i>
16:00-17:30	TC 02 MEETING CİBALI-2
17:30-18:30	Poster Session Hall: Kuleli Block Foyer
19:30	Gala Dinner

Wednesday, October 25th



2017 ICG Annual Meeting & 32nd Şişecam Glass Symposium Scientific Program

08:30-10:10 **Parallel Sessions**

GLASS STRUCTURE & PROPERTIES

Hall: HASKÖY

Chair: Ali Serpengüzel

08:30-08:50 Nurperi Yavuz, Muhammad Rehan Chaudhry, Ali Serpengüzel
Silica glass fiber optics processing with a pulse CO₂ laser

08:50-09:10 Woo Hyung Lee, Jun Ho Lee, Ju Hyeon Choi, Woon Jin Chung, Yong Gyu Choi
Kramers-Kronig relations of chalcogenide glasses in the long-wavelength infrared region

COATINGS

Hall: KASIMPAŞA 1-2

Chair: Seniz Türküz

08:30-08:50 Alp Osman Kodolbaş, Ümmü Mustafaoğlu, Birsen Handem Ergün, Nilüfer Evcimen Duygulu, Okan Yılmaz, Öcal Tuna, Seniz Türküz, Ahmet Karaaslan
Investigation the Influence of Doping Elements on Etched Zinc Oxide Thin Films Deposited By Sputtering Technique

08:50-09:10 Okan Yılmaz, Ümmü Mustafaoğlu, Birsen Handem Ergün, Nilüfer Evcimen Duygulu, Öcal Tuna, Alp Osman Kodolbaş
The Development of ZnO:Ga as TCO's for Thin Film Silicon Solar Cells

09:10-09:30 Nilüfer Evcimen Duygulu, Ümmü Mustafaoğlu, Birsen Handem Ergün, Okan Yılmaz, Alp Osman Kodolbaş, Ahmet Karaaslan
Influence of Doping Elements on Zinc Oxide Thin Films Deposited by Sputtering

09:30-09:50 Birsen Handem Ergünhan, Öcal Tuna, Nilüfer Duygulu, Seniz Türküz
Effect of Sputtering Power and Post Annealing Process on Properties of ZnO:Ga Thin Film

09:50-10:10 Nilüfer Evcimen Duygulu, Ümmü Mustafaoğlu, Birsen Handem Ergün, Alp Osman Kodolbaş, Ahmet Karaaslan
Etched Zinc Oxide Thin Films Deposited by Sputtering Technique

RAW MATERIALS

KASIMPAŞA 4-5

Chair: Ertuğrul Yay

08:30-08:50 Stefano Ceola, Nicola Favaro
Quality Assesment of Glass Cullet and Glassy Sand

08:50-09:10 Bernard Somerhausen, Elise Di Marino, Tuna Hunturk, Stefano Ceola
Benefits for fiber glass producers to use calcium oxide in their raw material

09:10-09:30 Yoji Doi, Terutaka Maehara, Tetsuji Yano
Thermal diffusivity of soda-lime silicate powder batch and briquettes

09:30-09:50 Jozef Kraxner, Jozef Chovanec, Dušan Galusek
Production of hollow glass microspheres with Na₂SO₄ blowing agent by flame synthesis from waste glasses

09:50-10:10 Mustafa Özer, Hüseyin Baştürkcü, Fırat Burat
Cam Kumu Zenginleştirme Tesisinin Yanürünüden Katmadeğeri Yüksek Ürünler Elde Edilmesi

MELTING TECHNOLOGIES

BALAT

Chair: Adnan Karadağ

08:30-08:50 Cevher Tol, Dadal Arıburnu, Türkay Yıldız, Selahattin Çınar, Selim Taşcı, Hakan Erdil, Bahtiyar Dalgıç, Çağlar Şahin, Zeki Alimoğlu
Process Optimization for Enhancement of Tableware Thermal Shock Resistance

08:50-09:10 Mahdie Kamali Moaveni
Effective implementation of electric boosting in glass furnace

09:10-09:30 Miroslava Vernerová, Lubomír Němec, Jaroslav Kloužek, Miroslava Hujová
Bubble Nucleation in Soda-Lime-Silicate Glass Containing Sulphur Compounds

09:30-09:50 Arca Iyiel, Ali Otken, Erkul Efendiler, Selim Taşcı, Erdinç Şükrü, Turgay Gün
Forehearth Coloring at a Glance

FUNCTIONAL GLASSES

CİBALI 1

Chair: Vedat Sediroğlu

08:30-08:50 Barış Demirel, Melek Erol Taygun
Production of antibacterial glass doped with silver, strontium and copper ions by using conventional melting method

08:50-09:10 Musa Mutlu Can, Shalima Shawuti, Satoru Kaneko, Cleve Ow-Yang, Sanapa Lakshmi Reddy, Mehmet Ali Gülgün, Tamio Endo
Magnetization in Oxide Semiconductors: Dependency to Native Defects and Impurity Atoms

09:10-09:30 Gökтуğ Günkaya, Yiğitalp Okumus
Effects of Catalyst on Synthesis of Glass Nanopowders by Sol-Gel Process

YOUTH OUTREACH

MARMARA

TC 02 MEETING

CİBALI 2

TC 11 MEETING

KASIMPAŞA 3

10:00-10:30 Coffee Break

TC09 MEETING

Hall: MARMARA

Closing Session

Hall: Sadabad Auditorium

Alev Yaraman

ICG, Global Cooperation for the Advancement of Glass and The Story of Siseecam's R&D

Manoj K Choudhary & David Pye

A Special Moment in Time: Arrival of the Glass Age

Closing Remarks

Şener Oktik