

Virtual Conference on Glass Problems

Mr. Bob Lipetz, Conference Director, provides this preview of the Virtual Conference on Glass Problems for KANCH. Information and registration at <https://glassproblemsconference.org>

(October 26-30, 2020)

The good news for the Indian glass manufacturing industry is that the 81st Conference on Glass Problems, which had been scheduled to take place on October 26-29 in Columbus (Ohio) USA, has been replaced with a virtual conference. The Virtual Conference on Glass Problems (VGPC) will take place online on October 26-30. Being accessible via the internet will allow participants from the Indian glass manufacturing industry access to the world's leading technical experts addressing current problems in glass manufacturing. The VGPC will also provide an exhibiting platform for solutions providers to communicate with the industry.

Larry McCloskey-Glass Engineering Consultant to Anchor Hocking, provides this insight, "The GPC conference has the cross section of information and vendor interaction, coupled with the technical papers, that may provide the only practical/technical experience many plant level or young engineers have opportunity to experience, during the year."

The Virtual Conference on Glass



will participate as one of the Supporting Associations

Problems is organised by the Glass Manufacturing Industry Council (GMIC), which is the American trade association bridging all segments of glass manufacturing and Alfred University, the USA's leading glass research institution. It is endorsed by the American Ceramic Society. Glass Worldwide is the official journal.

An industry advisory board oversees the programme, which is composed of invited papers and submitted abstracts, with the proceedings manuscripts distributed to attendees and also published by John Wiley & Sons. Preference is given to lectures providing practical, take-home information. Some of the highlights of the programme are: **Marty Curran, Innovation Officer, Corning**

Incorporated – *Glass Industry Today: Challenges & Opportunities*; **John Mauro, Professor, Pennsylvania State University** – *Machine Learning and Glass Formation*; **Frank O'Brien-Bernini, VP and Chief Sustainability Officer Owens Corning** – *Sustainability – Creating Enterprise Value*; **Daniel Swiler, Glass Scientist, O-I, Inc.** – *Surface Viscosity and the Melting of Glass*; and **Lance Lemings, Senior Director Operations, Gallo Glass Company** – *Hot Bottom Repair on a 10-Year-Old Furnace*.

The technical programme, which had traditionally been two days, now expands to three days, October 26-28.



The 82nd Conference on Glass Problems will take place on 1-4 November 2021 at the Greater Columbus Convention Center and the Hilton Columbus Downtown in Columbus, Ohio, USA

Two excellent technical short courses are offered virtually on October 23; **'Fundamentals of Batch and Furnace Operations'** taught by C. Philip Ross and **'Introduction to Redox and Sulfur Chemistry'** taught by Corinne Claireaux, Glass Scientist and Oscar Verheijen, Senior Consultant at CelSian Glass & Solar B. V.

An additional special opportunity is the GMIC organised virtual symposium entitled 'The Future of Glass Manufacturing. The world's top experts examine the technologies and trends that shape the future of glass manufacturing. The symposium will have three sessions, *Digital Transformation*, *Resources*, and *Furnace Design*. To allow for sufficient time to cover the topic in depth, the symposium has been extended to two days, October 29-30.

EXHIBITORS

The Virtual Conference on Glass Problems will allow delegates to visit an online exhibition of leading suppliers of glassmaking plant, equipment and services. In addition, delegates can communicate directly with exhibitors and exhibitors will be providing additional satellite education events.

To be presented as a virtual conference, the conference programme at the time of going to press includes:

SHORT COURSES

Fundamentals of Batch and Furnace Operations

Friday: October 23, 2020
10:00 am to 4:00 pm

Instructor: **C. Philip Ross**,
President | Glass Industry Consulting
International (GICI).

The course is an introduction to the principles of commercial glass production employed in Batch & Furnace operations by US Glass producers. Raw Materials, Glass Technology & Properties, Melting Furnaces, and Environmental Issues will all be touched upon. Suggested attendees could be vendors or newer individuals to glass manufacturing seeking an introduction to the issues faced in glass production.

Introduction to Redox and Sulfur Chemistry

Friday: October 23, 2020
10:00 am to 2:00 pm

Instructor: **Corinne Claireaux**,
Glass Scientist and Oscar Verheijen,
Senior Consultant | CelSian Glass &
Solar B.V.

The short course provides a general description of the redox concept and the relevant sulfur chemistry for soda-lime-silicate glasses.

OCTOBER 26–30, 2020

glassproblemsconference.org

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Organized by:



Official Journal:



where the glass manufacturing industry meets

Monday: October 26, 2020

TECHNICAL PLENARY

Session Moderator: **Bob Lipetz, MBA**
Conference Director, Glass Manufacturing Industry Council

10:00 am — 10:15 am	Bob Lipetz, MBA , Conference Director, Glass Manufacturing Industry Council – <i>Introduction</i>
10:15 am — 10:40 am	Erik Muijsenberg , Vice President, Glass Service, Inc.– <i>Industry 4.0 and Beyond</i>
10:40 am — 10:45 am	Q&A
10:45 am — 10:50 am	BREAK
10:50 am — 11:15 am	Daniel Swiler , Glass Scientist, O-I, Inc. – <i>Surface Viscosity and the Melting of Glass</i>
11:15 am — 11:20 am	Q&A
11:20 am — 11:25 am	BREAK
11:25 am — 11:50 am	Lance Lemings , Senior Director Operations, Gallo Glass Company – <i>Hot Bottom Repair on a 10-Year Old Furnace</i>

11:50 am — 11:55 am
11:55 am — 12:55 pm

Q&A
BREAK
Session Moderator: S. K. Sundaram, PhD
Program Director, Alfred University

12:55 pm — 01:50 pm
01:50 pm — 01:55 pm
01:55 pm — 02:00 pm
02:00 pm — 02:25 pm
02:25 pm — 02:30 pm
02:30 pm — 02:35 pm
02:35 pm — 03:00 pm
03:00 pm — 03:05 pm
3:05 pm

John Mauro, Professor, Pennsylvania State University—*Machine Learning and Glass Formation*
Q&A
BREAK
Marty Curran, Innovation Officer, Corning Incorporated – *Glass Industry Today: Challenges & Opportunities*
Q&A
BREAK
Frank O’Brien-Bernini, VP and Chief Sustainability Officer Owens Corning –*Sustainability – Creating Enterprise Value*
Q&A
SESSION ENDS

Tuesday: October 27, 2020

TECHNICAL SESSION – CONSTRUCTION / REPAIR

Session Moderator: Larry McCloskey
Consultant, Anchor Hocking

10:00 am — 10:25 am
10:25 am — 10:30 am
10:30 am — 10:35 am
10:35 am — 11:00 am
11:00 am — 11:05 am
11:05 am — 11:10 am
11:10 am — 11:35 am
11:35 am — 11:40 am
11:40 am — 12:40 pm

Neil Simpson, Independent Consultant to Ametek Land—*Supporting Hot and Cold Furnace Repairs*
Q&A
BREAK
Christopher Hetro, Glass Service Leader, Borton-Lawson— *Infrastructure and Process Considerations when Increasing the Size of Your Furnace*
Q&A
BREAK
Jalil Abraham Kuri, Furnace Design, Construction and Maintenance, Libbey, Inc. – *Experienced Analysis in Furnace Construction Recurrent Projects*
Q&A
BREAK

TECHNICAL SESSION – MELTING

Session Moderator: Chris Tournour
Senior Glass Process Engineer, Corning Incorporated

12:40 pm — 01:05 pm
01:05 pm — 01:10 pm
01:10 pm — 01:15 pm
01:15 pm — 01:40 pm
01:40 pm — 01:45 pm
01:45 pm — 01:50 pm
01:50 pm — 02:15 pm
02:15 pm — 02:20 pm

Stephane Schaller, SEFPRO Refractory Solution Engineer, SEFPRO— *Improved Glass Homogeneity and Higher Sustainability through Textured Expendable Tubes in Container Glass Furnace*
Q&A
BREAK
Phil Tucker, Principal Materials Engineer, Johns Manville | **Donn Sederstrom**, Senior Research Engineer, Johns Manville—*Extending Campaign Life in an All-Electric Melter Using High Levels of Commercial Bottle Cutlet*
Q&A
BREAK
Stanley Rutkowski, III, Senior Applications Engineer, RoMan Manufacturing— *New Power System Technology for More Electrically Efficient Melting, Booting and Forming Processes*
Q&A

02:20 pm — 02:25 pm	BREAK
02:25 pm — 02:50 pm	Cheng- Hung Hung , Senior Research Associate, Vitro Architectural Glass— <i>Combustion in Regenerative Air-Fuel Glass Furnaces</i>
02:50 pm — 02:55 pm	Q&A
02:55 pm	SESSION ENDS

Wednesday: October 28, 2020

TECHNICAL SESSION – QUALITY CONTROLS & SENSORS

Session Moderator: **Kenneth Bratton**
Manager, Research & Development, Bucher Emhart Glass

10:00 am — 10:15 am	Andries Habraken , Glass Melting Expert, CelSian— <i>Glass Melt Quality Optimization by Mathematical Modeling of Redox and Bubbles in the Glass Melt</i>
10:15 am — 10:30 am	Q&A
10:30 am — 10:35 am	BREAK
10:35 am — 11:00 am	Scott Cooper , Global Glass & Materials Science Leader, O-I – Glass, <i>The Detection and Root Causes of Cord in Glass</i>
11:00 am — 11:05 am	Q&A
11:05 am — 11:35 am	Joseph La Plante , Business Unit Glass Market Manager, ISRA Vision— <i>Float Glass Flatness Process Consequences and How to Improve Control</i>
11:35 am — 11:40 am	Q&A
11:40 am — 12:40 pm	BREAK
12:40 pm — 01:05 pm	Tod Canty, Jr. Engineer, JM Canty – <i>Dynamic Imaging as a Tool to Increase Yield and Reduce Production Costs</i>
01:05 pm — 01:10 pm	Q&A
01:10 pm — 01:15 pm	BREAK

TECHNICAL SESSION – ENVIRONMENTAL AND SUSTAINABILITY

Session Moderator: **Adam Polcyn, PhD**
Associate Director, Glass Science and Technology
Manager, Vacuum Coatings R&D, Vitro Architectural Glass

01:15 pm — 01:40 pm	Shrikar Chakravarti , Associate Director, Technology Commercialization – Glass, Praxair, Inc.— <i>Waste Heat Recovery in Oxy-Fuel Glass Furnaces – A Path to Sustainability and Lower CO₂ Emissions</i>
01:40 pm — 01:45 pm	Q&A
01:45 pm — 01:50 pm	BREAK
01:50 pm — 02:15 pm	Scott DeFife , President, Glass Packaging Institute— <i>Glass Recycling – A Regional Approach to Dedicated Glass Collection</i>
02:15 pm — 02:20 pm	Q&A
02:20 pm — 02:25 pm	BREAK
02:25 pm — 02:50 pm	Ravindra Aglave , Director, Energy & Process, Siemens Digital Industries Software— <i>Multiphysics Simulation to Solve Energy and Pollution Challenges in the Glass Industry</i>
02:50 pm — 02:55 pm	Q&A
02:55 pm	SESSION ENDS

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Conference information and registration at: <https://glassproblemsconference.org>