Pan-Canadian Framework on Clean Growth and Climate Change for Residential Windows – Debbie Schar, Natural Resources Canada

IG Fabricator Module Hands-On Session: Glass Cleaning and Cutting: Bill Briese, GED Integrated Solutions
IGMA Research Update: All IGMA research projects are funded from IGMA membership fees and contributions from other organizations.

Advanced Fenestration Testing: the task group is now working jointly with the IGCC (Insulating Glass Certification Council) Provisional Certification Task Group. The joint task group has reviewed data on various proposed test methods and has selected the Variable Environmental Chamber (VEC) to focus on. The original test equipment was developed by Intertek / Architectural Testing. A new prototype is currently being designed with the intention of sending the diagram out for quotation.

At the recent IGCC meeting a proposal was made for the development of a rapid test chamber in recognition of the need for a faster and perhaps less variable test methodologies for IG assessment. After consideration the IGCC Board approved preliminary funds to begin development of what could be a significant evolution in IG evaluation. After chamber development a pilot study and correlation testing will need to be done.

Development work for an ASTM standard for Thermal Stress has been completed and the researchers are drafting the first version of a new ASTM standard on Thermal Stress and Insulating Glass Units. The draft will be reviewed by the E1300 Task Group at the meeting in June.

Report from the President: Nathalie Thibault, Prelco

As promised at the Member Networking Session held in Clearwater, FL here is the compiled list of all the feedback received from members on suggested organizational improvements:

- Develop new and revised technical content for igmaonline.org
- Develop portable education (workshops, technical roadshows)
- Offer online education programs
- Offer IG 101 Personnel Certification
- Develop computer apps to attract millennials
- Software apps for glass thickness
- Advertise IGMA at the “big box” stores as an information resource
- Include advertising opportunities at conferences & events
- Develop more content for social media
- Include more member content on igmaonline.org
- Create a flowchart to show how IGMA relates to other organizations
- Develop a new member / conference attendee orientation program
- Develop a FAQ / checklist / process flowchart on what to look at when an IGU fails
- Formalize partnerships with other organizations
- Offer technical presentations that are proactive rather than reactive so members are not caught off-guard
- Create a directory of industry experts
- Create a list of all volunteers and include what they are involved in at IGMA and other organizations

The IGMA Board of Directors has reviewed this list and is developing a list of activities to address them. Many of these items will be addressed in the development of the new IGMA website coming May 29th, 2017. Thank you to all who participating in providing feedback to the board. We will continue to report back on our progress. If there is something you would like to add to IGMA’s activities, please let us know.

BOARD OF DIRECTORS

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Advanced Testing Fenestration Task Group, chaired by Aaron Ryan (Pella Corporation) has reviewed data results from two test methodologies (the Intertek Variable Environment Chamber and the modified ASTM E 2190 test developed by H.B. Fuller). It was agreed that more data is required before making a decision of which direction to pursue. John Kent (IGCC) reported on the preliminary results from the data collected under the IGCC Provisional Certification Pilot Program. It was agreed that once IGCC has the data from the pilot program, the two groups would hold a joint conference call to review it and potentially select a methodology to develop.

Vacuum Insulating Glazing Task Group, chaired by David Cooper (Guardian Industries) is monitoring the development of the ISO standard for VIG. Dave actively participated in developing the draft of the part 1 durability standard and the continued work on the next phase which covers temperature induced effects. The ISO standard is currently out for ballot to the various countries who have representation on the committee. The remaining task group objectives have been deferred pending publication of the ISO standard. Dave is the Chair of the NFRC VIG Task Group which is validating the LBNL Window and Therm simulation programs against various VIG window constructions. Testing will be commencing soon.

Life Cycle Assessment Task Group, chaired by Helen Sanders has completed the PCR for Processed Glass (published September 2016). There have been some discussions between the 4 industry organizations (AAMA, GANA, IMA and WDMA) on whether to work on the Use Phase of the PCR for Windows. At this date the joint organizational task group is not actively pursuing any new work activities.

Gas Measurement and Validation Task Group, chaired by Randi Ernst (FDR Design) reported on the current activities at ASTM. As reported in December 2016, there have been some issues with the Spark Emission Spectrometer that may be related to the desiccant (N₂ / O₂ ratios). It was agreed to reconvene the Desiccant Task Group to develop a standard specification for testing desiccant.

Technical Services Committee – Jeff Haberer (Trulite Glass & Aluminum Solutions, Chair)

The committee currently has one ballot under consideration, “Voluntary Guidelines for IGU Manufacturing Tolerances”. The ballot closes the end of May and the task group will review the ballot comments. If the ballot is successful, the document will be balloted to the IGMA Technical Policy Committee for the next level of approval per IGMA’s document development procedures.

The Glazing Guidelines Task Group, chaired by Tracy Rogers (Keystone Certifications) is working jointly with the GANA Insulating Division to develop a technical bulletin (identified as TB-1800-XX) on IGU’s with Unsupported Edges. The bulletin addresses concerns regarding the structural and durability performance of unsupported IGU edges subject to uniform load including glass stresses, practical glass deflections, sealant strength capabilities, spacer stress and deformation limits, load durations, dead load support and setting block location plus other variables that influence the unsupported edge condition for IGUs. All sections of the draft document have been written and the task group is reviewing the sections. Once this review has been completed, the document will be balloted to the Technical Services Committee and GANA’s Insulating Division.

The joint IGMA-AAMA Edge Pressure on Insulating Glass Units, co-chaired by Helen Sanders (Technoform Glass Insulation) and Paul Bush (Vitro Architectural) will be meeting in June to review the two proposals that have been received to develop a test fixture to measure edge seal pressure. The task group will be finalizing the remainder of the test parameters at their next conference call.

The IG Cavity Compensation task group, chaired by Aaron Ryan (Pella Corporation). Initiated mid-December has been meeting monthly and has established the document outline and populated several sections of the document. Cavity compensation methods that are included in the manual are Capillary Tubes (On-site sealing / leave open), breather tubes, valves (burping method), desiccant adsorption/desorption, pre-inflating/pre-deflating the unit, temperature manipulation at the manufacturing environment and bladders (on-site sealing). The task group is following the same template as TB-1601, Guidelines for Use of Capillary Tubes.
The IG Cavity Width task group, chaired by Dan Braun (Intertek/Architectural Testing) has finalized the TM-4400, Voluntary Guidelines for IGU Manufacturing Tolerances and has forwarded the document for balloting to the IGMA Technical Services Committee.

The Thermal Stress task group, chaired by Jeff Haberer has been reconvened to consider adding a section on ceramic frit to TM-1500, Guidelines to Reduce Instances of Thermal Stress.

SAVE THE DATE!
2018 Winter Conference
January 29th – February 2nd, 2018
Loews Ventana Canyon Resort
Tucson, AZ
Certification Committee – Roland Rossman (Garibaldi Glass, Chair)

The Sealant Adhesion to Spacer task group, chaired by Steve Marino (Vitro Architectural) has completed the test procedure. The procedure was successfully balloted to the Certification Committee and Technical Policy Committee. There are a few modifications to the text required but once complete the document will proceed to the final level of approval, balloting to the IGMA Board of Directors. Once the procedure has been approved, the companion video will be reviewed to ensure that it conforms to the procedure. The Spacer and Integrated Spacer System task group, chaired by Tracy Rogers (Keystone Certifications) will reconvene and continue work on developing performance criteria for equivalency.

The new manual, TM-4500-16, IGMA Quality Management System for the Fabrication of Insulating Glass Units (ISO 9001:2008) has been published and is available from the IGMA Publication Store. The TM-4510 task group resolved the comments received from the Certification Committee ballot and the 14 procedures have been balloted to the IGMA Technical Policy Committee. This ballot closes May 29th at which time the ballot comments will be compiled and resolved.

TM-4515, Quality Management System Work Instructions will be balloted to the IGMA Certification Committee. The Work Instruction template is available to all IGMA Supplier members to develop an instruction for their specific product. IGMA plans to develop a library of work instructions which will be available to the IGMA members. If you are a Supplier member and are interested in developing a work instruction for your product, please contact the IGMA office for a copy of the template.

The Design Considerations for Complex IGU Configurations is developing a technical manual on items to consider for units with stepped edges, units with edge deletion variations, edge notches, varying gap widths, different thicknesses, glass types, coatings, speedier glazing, exposed sealants, support systems (mullion with or without support) and shaped units. The second draft of the manual is under development. The task group is seeking additional members who have produced complex IGUs to participate in the development of the manual.

www.igmaonline.org

Currently the anticipated launch date is May 29th, 2017. Additionally, in response to feedback from the attendees at the 2017 Winter Conference in Clearwater, FL, there are some changes that are being incorporated into the website redesign.

**Members Only:** This is where you will see the most changes. The IGMA organization chart will include links from each committee and task group which will take the user to that specific folder for committee or task group. All task groups will be listed under their governing committee and will include past minutes of meetings, current and past versions of draft working documents, ballot results and other information relevant to that activity.

We will also have an additional industry calendar in Members Only which in addition to providing industry event information, will also include dates and times for task group meetings including links to participate.

The IGMA Presentation Library will be hosted in the Members Only section, categorized by subject; Components, Glass, Gas Filling and Measurement, Codes & Standards, Innovation and General. All past PowerPoint presentations from IGMA conferences will be available to members. Additionally as we now record all conference presentations, we will post these within 6 months of the conference.

The Publication page will be easier to navigate, both by document number or title. Publications will be categorized in similar fashion as the Technical Presentation Library; Codes & Standards, Design & Fabrication, Voluntary Test Methods, Post Fabrication & Installation, Thermal Performance, Care & Maintenance and Informational Guides & Bulletins.

Members will be able to renew their membership online, register for meetings and events at the preferred IGMA rates and ultimately update their member profile. If you have a recommendation or suggestion for the website, please let us know and don’t forget to provide us feedback once the website is launched. This is your website.
The IG Fabricator Workshop, professionally moderated by Oak Moser (Oak Hill Consulting), held the most recent workshop at the Exova facilities in Mississauga, ON. In addition to the workstations for Frost Point, Glass Cleaning and Cutting, Desiccant / Desiccated Matrix, Gas Measurement, Volatile Fog and Sealant, two sessions were added as a result of past participant feedback; a Spacer workstation and a session on How to Conduct a Forensic Investigation (with real case studies as examples). The Committee is considering holding one face-to-face workshop annually and offering online video sessions for the remainder of the year at a reduced rate. The task group responsible for the workshop is looking at how to best deliver the online sessions.

This workshop would not be possible without the support of our volunteer workstation moderators. Thank you to Bill Briese (GED Integrated Solutions), Mike Burk (GED Integrated Solutions), David Cooper (Guardian Industries), Randi Ernst (FDR Design), Jeff Haberer (Trulite Glass and Aluminum Solutions), Bill Lingnell (IGMA Technical Consultant), Shulin Cui (SilicaStar), Richard Warren (Tremco) and Brian White (H.B. Fuller).

As reported in December 2016, all sessions of the Preventing IG Failures Education Seminar have been videoed. The online program will be launched later this year with preferred pricing for IGMA members.

The Leadership Development Program launched in February 2017 and the fourth session is scheduled for the week of May 15th. Each session is pre-scheduled for the third Wednesday of each month for a total of 12 sessions. All sessions are being recorded and we are still accepting registrations for the program. The feedback from the attendees has been overwhelmingly positive and Oak Moser is an excellent moderator, drawing on his industry experiences to demonstrate key principles.

Are there topics you are interested in? Please let us know. Member education is a priority for the IGMA Board of Directors.
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TM-300-90(16), North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use – Includes guidelines for multiple cavity IGUs

TM-3000-90(07) F, Recommandations pour l’installation en Amérique du Nord de Vitrages Isolants Scellés dans des Constructions Commerciales et Résidentielles

Quality management system for the fabrication of insulating glass units

TB-1200-83(16), Guidelines for Insulating Glass Dimensional Tolerances
Includes dimensional tolerances for multiple cavity IGUs plus additional manufacturing tolerances

UPCOMING EVENTS

2017 Summer Conference: July 31 – August 3, 2017 / Sheraton Centre Montreal / Montreal, QC.
2017 GlassBuild America: September 14-16, 2017 / Atlanta, GA.
2017 WinDoor North America: November 29-30, 2017 / International Centre / Mississauga, ON.
2018 Winter Conference: January 29 – February 2 / Loews Ventana Canyon / Tucson, AZ.
2018 Summer Conference: July 30 – August 1, 2018 / J.W. Marriott Downtown / Vancouver, BC.