

Certification Committee - chair: Roland Rossman (Garibaldi Glass)

Quality Management System task group: Tier I, II, III and IV, of the IGMA Quality Management System for the Fabrication of Insulating Glass Units to the ISO 9001:2008 Standard, encompassing the Quality Manual, Procedures, Work Instructions and Forms are now available from the IGMA Publication Store after a successful ballot at the Certification Committee. The task group will now revise the Quality Manual to the ISO 9001:2015 standard. It is anticipated that this work will be complete by mid-year.

Design Considerations for Over-sized IGU Constructions task group: The task group will be working jointly with NGA. Both IGMA and NGA have a draft working document and the staff will review both documents in order to combine them. A PowerPoint on over-sized units was presented as part of the 2019 Winter Conference in Austin, TX.

Sealant task group: The task group will be working on a major revision of TB-1201, which was originally a sealant dimension survey but will be updated to include design considerations for sealants. The task group is also working on combining TM-2400, Test Methods of IG Sealants; TM-2301, Voluntary Test Methods & Voluntary Performance Assurance Criteria for Two Component Sealants, and TR-1000, Chemical Effects of Glazing Compounds on Elastomeric Edge Seals.

A fourth task group will commence work on the Performance Requirements for PIB Primary Sealant.

IGMAC Certification Program: as announced earlier this year, the program has been accredited to the ISO 17065 standard through ANSI. The IGMA and AMS staff are working on harmonizing the IGMAC and IGCC-IGMA program so that all program requirements are standardized except the test standard which program participants can select.

Desiccant task group: a scope has been developed by the Certification Committee and the task group will be updating TM-2100-78(81), Test Methods and Performance Criteria for Desiccants and will work on developing a test methodology to determine desiccant type.

Emerging Technologies & Innovation Committee – chair: Helen Sanders, PhD (Technoform Glass Insulation) / co-chair: David Cooper (Guardian Industries)

Gas Measurement Validation task group: This is a crossover task group with IGCC and ASTM. A new round robin is currently underway using different operators and different SES devices.

Vacuum Insulating Glass task group: the ISO standard for VIG has been published. Now that there is a standard for the product, the task group will be developing certification guidelines for testing VIG and under the Glazing Guidelines Working Group; glazing guidelines for VIG.

Advanced Fenestration Testing task group: The task group, now joint with the IGCC task group is assessing the Rapid Accelerated Chamber (RAC). Early results were promising however testing has been stopped while the chamber undergoes some design revisions. The IGMA Board of Directors has formally agreed to financially sponsor this activity from the IGMA R&D fund.

Material Transparency (formerly the Life Cycle Assessment) task group: has redefined its scope to include other activities such as development of EPD's, HPD's, LEED requirements and other material transparency programs. Discussions during the conference were related to the California Buy Clean Act, AB 262 which will require structural steel, rebar, mineral wool and flat glass to report their Global Warming Potential (GWP) for government and other construction projects. Vik Ahuja (thinkstep) had prepared a presentation on AB 262 noting that the Department of General Services (DGS) would be considering including processed glass. A survey will be sent to the members of IGMA and NGA to determine interest in developing an industry-wide EPD for processed glass.

On the Window PCR front, a different survey has been developed by the MOU Group composed of AAMA, IGMA, NGA and WDMA to determine whether the group will work on a new Window PCR to replace the existing one developed in conjunction with IERE.

ASTM Field Correlation Study task group: This is a Members Only task group. Please contact the IGMA office directly for an update on the current activities.

Technical Services Committee – chair: Jeff Haberer (Trulite Glass and Aluminum Solutions)

Glazing Guidelines task group: The technical bulletin (TB-1800-18) to address load resistance (glass strength) and dead load support for IGUs with unsupported edge condition was published Fall 2018. All IGMA members in good standing at the date of publication should have received their complimentary copy. This bulletin does not address point supported insulating glass but includes the scope and introduction of the subject matter, sections on uniform load including glass

stresses, glass deflections, sealant strength capabilities, spacer stress and deformation limit / load durations, dead load support and setting block location and a reference section. This document was developed jointly by IGMA and the former GANA Insulating Division, now NGA. It is anticipated that this document will be available this fall.

Edge Pressure of IGUs task group: This is a joint group with AAMA. The task group has undertaken two activities. The first is to develop a test to predict when PIB scalloping will occur as an aesthetic issue and ultimately result in a seal failure. Work has focused on the second objective; to develop a methodology to measure the edge seal pressure of an IGU. Further development of the test fixture has been placed on hold however the task group viewed a video of the Quanex IG Glazometer which can measure the edge pressure of an installed insulating glass unit. The task group will draft an RFP for a graduate student to work full-time on the development of the test methodology and the equipment.

Guidelines and Tolerances for IGU Cavity The second work activity, the development of a consumer information webpage has been developed but not launched on the IGMA website. As work continues in this area, the webpage will be updated to include any new publications on the topic of solar reflectance.

IG Cavity Compensation task group: the document, TM-3200-XX, is close to completion and it is expected to be balloted to the IGMA Technical Services Committee this year. This technical manual includes generic design alternatives for cavity compensation for insulating glass units and determine conditions that impact the pressure in the IGU cavity. Items included in the document are capillary and breather tubes, one-way valves, desiccant adsorption/desorption, pre-inflating / pre-deflating the unit, temperature manipulation during fabrication and the use of bladders.

PIB Migration task group: working jointly with the former GANA Insulating Division, now NGA, TB-1250, PIB Primary Sealant has successfully passed all levels of approval and will be forwarded for publication. The other work activity is to develop a Glass Information Bulletin on the compatibility testing of glazing materials related to the performance of PIB in insulating glass units. A small working group was formed to develop a Design of Experiment to determine if the proposed increase in temperature and changes in volumetric aspects can be substantiated. H.B. Fuller and Dow Silicones Corporation are both running the tests. The H.B. Fuller data was available and indicates that the existing test parameters of the IFT Rosenheim test should be retained. The task group will determine next steps once they have reviewed the test data from both H.B. Fuller and Dow Silicones Corporation.

Visual Quality task group: Working jointly with the AAMA Glass Materials Council, the webpage, A Consumers' Guide to Understanding Glass Standards has been published to both the IGMA and AAMA websites.

Thermal Stress task group – The Technical Services Committee voted to approve the text for ceramic frit. This language will be added to TM-1500-14, Guidelines to Reduce Instances of Thermal Stress and the year of publication updated to 2018.

Prequalification Testing of Glazing Infill for Hurricane Products – a new task group was formed which will work jointly with the AAMA Glass Materials Council on determining interest in developing a test methodology.

Codes & Standards Updates: updates included ASTM, ASHRAE, GICC, NAFS, CGSB, CSA and the Canadian and US Energy Star programs. An update was provided on the Canadian government, industry stakeholders meetings on the new proposed energy requirements to achieve net zero for all buildings by 2030. There are a number of reports available on this initiative. If interested, please contact the IGMA office for the reports.

Organization Updates: updates from AAMA, Fenestration Canada, IGMA Australia, NFRC, NGA, and WDMA were provided at the conference

Education & Safety Committee – chair: Bill Briese (GED Integrated Solutions)

IG Fabricator Workshop: Two sessions of the IG Fabricator Workshop were scheduled for the week of November 5th, 2018 at the Intertek Test Facilities in Plano, TX. It was decided to schedule one workshop, November 12-14, 2019 at the INTERTEK Plano TX facilities. Registration will be launched early.

Preventing IG Failures Education Seminar: the final seminar was held October 2016 at the GlassBuild America trade show in Las Vegas, NV. The online program was launched in March of this year. It is available as an annual subscription or individual sessions / topics can be purchased.

Leadership Development Program: This program launched in February 2017 and the last session was held the third week of January 2018. The next series in the Leadership Development Program will be launched Spring 2019 with 3 orientation sessions for those who did not register for the first series. An announcement will be made in the next month regarding the program

Glass Safety Awareness Council: The council now reports directly to the committee and all education programs will include a focus on glass safety. This conference included updates to crush injuries, changes in legislation, work and walking surfaces hazards and

how to address them, and other timely topics.

A series of webinars will be presented over 2019.

The **Do's and Don'ts of Plant Safety**, has started development on a new manual which will address safety issues for each area of the plant and for plant processes. The manual includes how to conduct a Safety Risk Assessment complete with templates and tools. A typical plant floor plan has been added to the document with a list of PPE for each area.

Presentations:

How Nanotechnology is Revolutionizing the Glass Manufacturing Industry: presenter: Larry Eichel, drywired

Connected Smart Glass for Selectively Repeating Wireless Signals: presenter: Juha Liliija, Stealthcase

Challenges with Over-sized IGUs: presenter: Roland Rossman, Garibaldi Glass

All presentations from this conference and from past conferences are available to the IGMA membership. The IGMA website is constantly being updated so check frequently for the latest information in the Members Only section. To receive your unique user name and password, please contact the office.

Margaret Webb, IGMA Executive Director and Janice Yglesias, AAMA Executive Vice President, provided a status update on the discussions with AAMA regarding the formation of a new organization. A Member Feedback Session was held on Wednesday, February 6, 2019 and all comments have been compiled for the IGMA Board of Directors' review. A member webinar has been scheduled for March 21, 2019 to provide an update on the IGMA-AAMA discussions to all members. All members are encouraged to visit the IGMA website, members only for current information.

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Have you visited the new IGMA website: www.igmaonline.org. The Members Only section has been expanded and includes current working documents, Minutes of all task groups, IGMA governance documents and the Technical Presentation Library. Request your login from the IGMA website or through the IGMA office.

UPCOMING EVENTS

IGMA Leadership Development Program Webinar Series: April 2019

IGMA 2019 Summer Conference: June 17-20, 2019, Victoria, BC (joint with AAMA)

IG Fabricator Workshop: November 12-14, 2019, INTERTEK, Plano, TX