



President's Annual Report 2015-2016

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Foreword

Dear Colleagues,

I am pleased to submit to you my first report as the president of the International Congress on Glass (ICG). As you know, my presidency began on September 22, 2015 at the Council meeting, held in conjunction with the ICG Annual Meeting, Bangkok, Thailand. In my inaugural remarks, which subsequently were also sent to you, I outlined the following strategic initiatives for us to pursue.

- Member Focused Organization
- Attracting and Retaining Young Colleagues
- Strategic Roles for CTC + TCs
- Global Education/Training Outreach through Collaboration
- Explore Financial Resources

This report differs significantly from the past President's report in that it focuses primarily on new and important activities and only briefly covers some of the 'standard' items of a President's Report (e.g. Finance, CTC and TCs activities). These standard items are typically described in considerable detail in reports submitted to you on these activities. Some other information such as the names of TC chairs and ICG officers, and a list of our members can be accessed through www.icglass.org, which I encourage you to not only visit but also volunteer to improve both in content and form. I also note that at the time of the writing of this report, some usual source materials for a President's Report are not yet in their final form. It is best, then, to have such materials covered fully in appropriate documents rather than including partial information in this report.

I have been associated with the ICG for over two decades now, with the last four years as a member of its Management Board. I take great satisfaction in informing you that the 6 months of my presidency have been a period of intense activities for us. You will read about these in this report. Ours is an 83 years old venerable organization with traditions and long established ways of doing things. We are also an organization that is completely volunteer based with no paid staff and our financial resources are extremely limited. These factors influence and limit the pace of change even when we recognize the need for change. The same factors also make it abundantly clear that the vitality of the ICG depends critically on having active and committed officers and, very importantly, your active engagement with the ICG.

I want to take this opportunity to thank the members of the ICG Steering Committee and in particular the members of the ICG Management Board for their hard work and support and to many of you for your counsel.

On becoming the president, I had pledged to serve ICG "with all my passion, energy, and intellect." I want you, the members, to know that I have been true to my pledge.

Sincerely,

Manoj Choudhary

Dr. Manoj Choudhary
President, International Commission on Glass

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I. Member Focused Organization: ICG Survey

We conducted this survey as a part of an ongoing effort to enhance ICG's engagement with its membership. Members of the Steering Committee took on the assignment to contact Council members of specific countries, as outlined in the following table.

Steering Committee Members	Countries to contact
M. Choudhary	US + Canada + India
A. Duran	Spain + Italy + Portugal + Argentina
P. Šimurka	Slovak Republic + Czech Republic + Poland + Hungary + Russia
M. J. Pascual	Bulgaria + Belgium + Serbia
R. Vacher	France + UK + Romania + Greece
L. Belmonte	Brazil + Mexico
R. Langfeld	Germany + The Netherlands + Liechtenstein
S. Oktik	Turkey + Iran
S. Peng	China, Finland
S. Tanabe	Japan + South Korea)
J. Tepiwan	Thailand + Sweden + Denmark

As the SC membership changes we will update the list. If SC members do not contact you, please contact and send your comments to the Executive Secretary.

The survey topics and questions asked are summarized below.

i. Communication from and to ICG

Are communications from ICG useful and timely? What other information you would like to receive?

Have you visited www.icglass.org? Did you find the information you were looking for? What else would you like to see? Any suggestions for improvements?

ii. Council meetings

During the last few years we have tried to improve the efficiency of the Council meetings by having a well prepared agenda, relevant information sent to you well in advance of the meetings, focused presentations, and effective facilitation of discussion (and voting where relevant).

How satisfied you are with all these aspects (agenda, meeting materials, facilitation) of the meetings? Any suggestions for improvements?

iii. Technical Committees

How do you view the functioning of any TCs in which you are personally involved? If you are not involved personally but know colleagues who are, how do they view their respective TCs?

Are there topics that are important but not being covered by TCs?

iv. ICG Activities

Given that ICG is a totally volunteer based organization (with no paid staff!), what other activities should ICG pursue?

v. What can you do for ICG?

Are their programs / initiatives that ICG could join through your NPO?

Are there financial resources available for international collaboration to which ICG could be a party?

Is there anything you need from ICG to make ICG more visible through and to your NPO?

vi. Additional comments

Please feel free to provide comments on any other items you want to bring to our attention.

Dr. Langfeld prepared his own questionnaire that asked similar but not identical questions. Dr. Tepiwan also used Dr. Langfeld's questionnaire. I incorporated responses they received into the same framework of six items described above.

We received 22 responses from 20 National Participating Organizations and two Associate Organization Members (one each from India and US). I THANK those who have taken the time to respond. Some of the countries were, unfortunately, not contacted. A few were contacted but did not respond.

The detailed survey report will be sent separately. In the following, I present overall summary of responses for the six items mentioned above. I also include, where applicable, my appeal and request to you. As far as I know, this is the first time that such a survey has been conducted. Some of our members have expressed their appreciation for it.

I.A ICG Survey: Summary of Comments on Communication

- Most members find communications from ICG generally adequate. Recommended improvements include more communication on:
 - Industry developments
 - glass courses
 - research and technology breakthroughs
 - advance notice of Council meetings schedule
- Most members use the website occasionally and find it adequate for informational purposes. Some and specially those who visit more often or would like to use it as a resource suggest following improvements:
 - updated information especially on TCs
 - professional appearance 'worthy' of ICG

- more comprehensive news on conferences and workshops
- information helpful for planning purposes (e.g. schedule of council meetings)
- A remark from a USA Council member is worth noting. Even as a Council member, “I think of myself not as a member of the ICG”. I suspect this is not an isolated view.

Note and request to members

ICG lacks the financial and personnel resources of some of our NPOs to develop a website like theirs. ICG does not have a single person on its payroll. We will greatly appreciate if some of you come forward to help improve www.icglass.org the way you would like it to be. **Any volunteers?**

I.B ICG Survey: Summary of Comments on Council Meetings

- Most serious comments are that Council is mainly approval of decisions already made except for voting on meeting location and that the meeting functions as a platform to meet people rather than be the most important decision-making organ of ICG.
- Suggestions for improvement are summarized below.
 - schedule to avoid conflict with technical sessions
 - concentrate on important topics, keep it short and effective
 - allow for some time to brainstorm, discuss new direction
 - address perceived discrepancy between budget /accounts info sent in advance and details presented at the meeting
 - better explanation of voting process
- Concerns about travel expenses and the need to organize some meetings in locations that are affordable.
- Several positive comments also received.

Note to members

It is precisely to get input from our members (as represented by the Council representatives) in decision-making that we assigned Steering Committee (SC) members the task of being the point persons for specific countries. As the SC membership changes we will update the list. If SC members do not contact you, please notify our Executive Secretary of this and send your comments directly to him.

In the last few years, ICG has strived (and I have worked very hard for this) to have Council play its role in important matters like the selection of the Vice President, location of the annual meetings and Congresses. I am committed to enhancing ICG’s focus on its members. This survey

is a part of that commitment. As one of you remarked in the previous section “this is the first time ICG asked for my opinion”.

Let us also note, however, that ICG as an 83 years old organization, has a long tradition of doing things in certain ways. So we need to make changes in a deliberative way.

I.C ICG Survey: Summary of Comments on Technical Committees

- Those active in TCs are generally positive. There is one critical comment, however, about lack of support and response from CTC except for the Annual Report request.
- Not surprisingly, survey points out unevenness among TCs depending on the involvement of chairs and members.
- Some good ideas on new or reoriented TCs:
 - A TC that covers glass fibers and insulation wool, or TC for insulation or energy saving glass including foam glass, wool, low E glass, smart windows
 - A group of people specifically working around the topics of hygiene in the workplace. Inside TC13?
 - Optical Fibers can be an important topic for inclusion either under Optoelectronics (TC 20) or as a separate TC.
 - Food safety of containers
 - Topics to be considered by TCs: Glass surfaces, thermal properties, glass transition, relaxation, glass fibers, metallic glasses, glass art, glass microspheres, photochromic glasses, glass under pressure, diffusion.

Note to members

I especially thank those of you who have suggested TCs for specific topics. Please come forward with likeminded people to either form a new TC (e.g. Energy Saving Glass or Glass Fibers for Reinforcement and insulation) or work through existing TC (Optical Fibers under TC20).

I.D ICG Survey: Summary of Comments on ICG Activities

- Generally quite positive comments about ICG activities, especially Congresses / Annual Meetings, summer and winter School, and Road mapping.
- Several excellent suggestions
 - Hold summer / winter Schools at different locations
 - Make ICG Lectures available online
 - More ICG-Industry interactions, industry focused topics
 - Hold some annual meetings based on strategic considerations and not voting
 - Moderated sessions to promote academe-industry exchange.

Note to members

Many excellent suggestions have been made. We are discussing holding winter school at a different location next year. We have also setup an Educational Outreach initiative led by Professor Reinhard Conradt to look at online offerings and other educational options.

I.E ICG Survey: Summary of Comments on What Members can do for ICG

- Prof. Messaddeq (Université Laval, Québec, Canada) has shared the good news about matching funding available for scientific projects, as well as activities like workshops or glass courses.
- US has made some suggestions on additional activities ICG could do in US (ICG related programming at GOMD, relevant TC topics with Glass Problems Conference programming).
- Short and more frequent communications from ICG, short courses, ICG sponsored lectures are some of the activities suggested to increase the visibility of ICG and collaboration with NPO.

Comment on Eurocentric nature of ICG

Please note that 20 out of 30 NPOs are from Europe, so it is to be expected that Europe will have high visibility in ICG matters. Nevertheless, both the current and the immediate past presidents are non-European. The 2010 Congress was held in Brazil, the 2011 and the 2015 Annual Meetings were held in China and Thailand respectively, the 2016 Congress will be in China, the 2018 Annual Meeting will be in Japan, and the 2019 Congress will be in USA. Also, 5 of the 11 Steering Committee members are non-Europeans.

I.F ICG Survey: Summary of Additional Comments

- Some of our members have put down in writing what others had shared privately about ICG organizational /structural issues.
- The notable comments include topics such as the need to have more engagement with and input from members, having transparency in our working and selection of officers, conducting more education and training (and also at different locations), and the need to adopt modern communication technologies.

Note to members

The additional comments bring out some very important concerns. Not all of them can be addressed quickly or to the satisfaction of all. But they all deserve careful consideration. Given below are personal remarks.

- The comment on the ‘Eurocentric nature’ of ICG was discussed earlier.
- As for ‘open governance’, ICG has taken significant steps and will continue to take further steps. This survey itself is an important step in enhancing the membership focus of ICG.
- Please note that ICG is not a ‘revolutionary’ organization. As a federation of national glass science and technology organizations, it needs to evolve by achieving as wide a consensus as possible among those organizations. Sometimes, the two council members from the same organization have very different ideas!
- Annual meetings are organized by national organizations and not by a single entity such as the GOMD of the American Ceramic Society. So while having a technically great meeting and choosing the most accessible locations are highly desirable, these meetings sometimes also have an important goal of catalyzing glass related activities in member countries.

I.G ICG Survey: Concluding Remarks

I felt the need to conduct this survey because, over the years, quite a few of you have made remarks in private that needed to be addressed. Let me conclude this section with the following remarks.

- It was gratifying to receive responses from 20 countries (from a possible maximum of 30). I thank SC members for their cooperation and you for responding.
- We summarized key observations for the 6 topics and I also made my remarks for you, the members, to consider. You will be receiving the complete survey report.
- I strongly request you to not take a “stand-offish” attitude towards ICG. Please get yourself and your colleagues engaged, say in TCs, and offer opportunities for active engagement between ICG and your organization. That is why you were asked to identify what you can do for ICG.
- Please offer specific and actionable suggestions. ICG does not have the resources of some of your organizations. We will be grateful to receive your support in areas you want ICG to do better (e.g. website, presence on social media, trainings and workshops, additional or different TCs, and other items you have identified).
- Considering that ICG has no paid staff and a very limited budget, our progress on many topics of interest to you will be limited by the extent of your active support.

II. Attracting and Retaining Young Colleagues

II. A Background Information

We set-up a committee composed of the following colleagues to identify and recommend strategies ICG could implement to achieve the goal of attracting and retaining younger colleagues.

Prof. Delia Brauer (Univ. Jena, Germany)
Dr. Mathieu Hubert (Celsian Glass & Solar, NL)
Prof. Julian Jones (Imperial College, UK)
Dr. Erik Muijsenberg (Glass Service, CZ)
Dr. Randall Youngman (Corning Inc., USA)

This “Young Professional Committee” deliberated on three questions listed below.

1. What is the current situation regarding the importance of glass in academy and industry?
Which issues are faced?
2. Why aren't more young professionals joining ICG?
3. How to attract the future generations of glass scientists and technologists?

They addressed two broad categories of challenges.

- 1- How to get more people motivated to join the glass community as a whole by getting them interested in the material glass, and
- 2- How to attract these young professionals to ICG and retain them.

The recommendations for the above two challenges are reproduced below (with minor editing) from the Team's report.

II. B Motivating Future Generation of Glass Scientists and Technologists

✓ It is crucial to show to the future generations of students that glass is truly a material of the future, that there are still a lot of opportunities and challenges to overcome, and that one can make a great career in this field.

- ⇒ Need more introduction to the wonders of glass, at undergraduate level and before.
- ⇒ Communication on glass to make it more attractive and more visible in the press

- ⇒ The book “Stuff Matters” by M. Miodownik increased significantly awareness on materials (including glass) in the UK and motivates the future generation of materials scientists. ICG could use this book as an example on this book and develop material on glass easily accessible to the largest numbers. Other material exists, and more can be developed.
- ⇒ ICG can play an active role in the dissemination of this material to attract and motivate next generation of students.
- ✓ There is a need for more glass teaching position to attract and train new students.
- ⇒ ICG can have a role in stimulating countries to lobby for creation of these positions or increase coverage of glass in the programs.

II. C Attracting Young Professionals to ICG and Retaining Them

- ✓ **Technical Committees** are one of the strongest points of interest within the ICG, but suffer from a lack of communication about them.
- ⇒ Communicate more about the TCs, dates at which they are organized (e.g. on the website), promote the fact that young professionals can also join these meetings.
- ⇒ Promote that young professionals can be active in the TCs even when not participating to the ICG congresses.
- ⇒ Make TCs more dynamic and being a central part of ICG meetings (e.g. putting them forward in the organization of the sessions, presentation of their activities to a broader audience).
- ⇒ Encourage TCs chairmen/chairwomen to identify and invite young professionals to join TCs. ICG can play a central role in supporting the chairpersons in these actions
- ⇒ Simplify/clarify the procedures to become TC member.
- ✓ A **Youth Outreach Committee** could be created by ICG in order to promote different actions aimed at attracting and retaining young professionals.##
- #
- ⇒ Programming activities oriented around the young researchers.
- ⇒ Permanent “panel” to support and connect young professionals, being effectively active in the organization of events and in the outreach actions.
- ⇒ Making ICG events more “fun” for young attendants, by organizing networking/social events, panels such as Young Scientists forums (see example of European Society of Biomaterials, <http://www.esbiomaterials.eu/Ysf/Forum>).
- ⇒ Supporting the TCs and ICG members in their outreach actions.

- ⇒ Engage via national/local organizations and/or local relays, encouragement of local platform for young professionals (example of “Junge DGG”).
- ⇒ Increase networking opportunities.
- ⇒ Connect new young students to an ICG “Mentor” who can introduce them again to other ICG people and guide/advise them.
- ⇒ Allow for easier access to the meetings and activities, by e.g. developing more online events such as webinars, discussion panels (allow for participation at reduced costs)
- ✓ The benefits and advantages of participating to ICG activities must be clear.
- ⇒ Convince not only the individuals but their management as well.

On behalf of ICG, I thank Prof. Brauer, Dr. Hubert, Prof. Jones, Dr. Muijsenberg, and Dr. Youngman for this extremely valuable contribution and look forward to their continued engagement as we deliberate on implement these recommendations.

III. Strategic Roles for the CTC and the TCs

III. A Background Information

A workshop was organized by the CTC on February 18, 2016 in Madrid, Spain with the objective of identifying critically important Glass Science & Technology topics for the CTC to recommend for the TCs to pursue and, as needed, for the TCs to be formed and re-constituted. The meeting was facilitated by Dr. Klaus Bange. The participants in the workshop included members of the CTC and a group of invitees. The attendants are listed below.

Rene Vacher, Hiroyuki Inoue, John M Parker, Kathleen Richardson (Via Skype), Xiujian Zhao (ppt input only), Julian Jones (ppt input only), Bernard Hehlen, Joachim Deubener, Reinhard Conradt, Hans van Limpt, Mathieu Hubert, Sener Oktik; Manoj Choudhary; Alicia Duran, Peter Simurka, Maria J Pascual,; and Eileen DrGuire (Via Skype).

Prior to the workshop, the participants were requested to provide and review documents of several relevant previous Glass Roadmaps prepared by various organizations in different countries. The key findings of these documents were discussed and critiqued at the workshop. It is important to note that workshop deliberation was not limited by the existing TCs, i.e. it fully considered the option of creating new TCs where needed.

III. B Summary of Workshop Outcome

The CTC, in months to come, will review the workshop findings to recommend actions. Here, I summarize, the key outcomes. The important (as decided by the number of votes received) ideas and topics discussed at the workshop can be classified into the following clusters/groups.

- Energy & Environment: Production
- Resources/Data (e.g. glass property data bases, open source simulation, training /education)
- Energy & Environment: Applications
- Multi-functionality
- Basics (i.e. Fundamentals)
- Process innovation

Specific topics were identified in each of the above mentioned cluster.

III. C Next Steps

Listed below are some steps for the CTC to take.

1. Prepare details on the high ranked topics mentioned above and check which TC should work on what specific topic
2. Review what important topics are not presently considered and start new TCs where needed.
3. Explore the development of a matrix structure for the TCs, where elements of various TCs are geared towards specific ends.

On behalf of ICG, I thank René Vacher and Klaus Bange for the well organized and facilitated workshop and all the participants for their contributions.

IV. Expanding the Educational / Training Outreach of ICG

As the Chair of the TC23 (Education), Prof. Reinhard Conradt has kindly agreed to lead, within or through TC23, the initiative to expand the global educational / training outreach of ICG through programs and tools such as online glass courses and topical workshops. He is putting together an international group of people with interest in and passion for education. Prof. Conradt plans to have the team ready and meet in Shanghai to develop a proposal.

V. Additional Financial Resources

This initiative is aimed at identifying special activities that ICG could propose or do for or in partnership with its members for which financial support could be obtained. In other words, we

are looking to members to guide us on how ICG could be leveraged for special funding opportunities in their respective countries or regions.

One of the questions asked in the survey was aimed at identifying such opportunities. We received a few suggestions but really need our members to take the lead. They are in the best position to know the local /regional situation on items such as funding organizations, and requests for proposal.

VI. Financial Update

I thank ICG Vice President Prof. Alicia Duran for kindly providing the information included in the following write-up. We are grateful to Prof. Duran for her exemplary and invaluable service to ICG as our treasurer during 2002-2015.

In 2015, ICG membership included 32 countries, associated through national glass societies, universities or companies from these countries (referred to as the National Participating Organization members). In addition, there were 5 Associated Organization members, and 16 Associated Companies members.

As you know, the principal source for ICG's finances is our membership fees, which are based on annual glass production of members' countries. There are 4 levels of production to assess the fees, which are adjusted for a 2% yearly inflation rate. No adjustments were made in 2015 and 2016 fees because of the prevailing low inflation rates. The 2015 membership fees were as follows.

- 1486 € for China, France, Germany, Italy, Russia and USA.
- 991 € for Japan, Korea, Mexico, UK and Spain.
- 495 € for Belgium, Brazil, Check Republic, India, Netherlands, Poland, Thailand, Turkey and Iran.
- 398 € for Argentina, Canada, Finland, Greece, Hungary, Liechtenstein, Portugal, Slovak Republic, Denmark, Bulgaria, Romania and Sweden.

The fee for Associated Organisation members was 195 € and that for Associated Company members was 725 €. Two Associated Company members from China and Indonesia and one Associated Organization member from India had not paid their dues by the end of 2015.

The other financial sources for ICG are the sales and copyright from ICG publications (1104 € in 2015), and the selling of References Glasses. There was no income in 2015 from the latter because of lack of availability of the samples. BAM and the SSV are preparing new glasses to restart selling in 2016. The interest incomes from our investments have diminished greatly to 1886 € in 2015 from 4300 € in 2014 and 6300 € in 2013, and this trend will continue.

The accumulated capital of ICG at the end of 2015 was 178,918 €; 9,000 € less than the previous year. The Income was 34,476 €, 8.2% lower than the approved budget. This decrease is due to a combination of small revenue from books sales, no income from sale of standard glasses and much smaller gain from investments, compensated partly by a slight increase in the fees from Associated Company and Organization members.

The expenses in 2015 were 31,886 €. The principal elements of the expenses are given below.

- 17,761 € to cover the costs for Treasurer, Secretary, CTC Chair and CTC Secretary
- 6,195 € for financing of TCs' projects
- 2,943 € for the third edition of Making Glass Better
- 2,019 € for the web site maintenance
- 1,241 € for the Gottardi Prize Award
- 1,143 € towards financial charges and retentions
- 567 € for GoToMeeting and miscellaneous

Please note that a total of 25,863 € (6,195 € of 2015 budget + 19,668 € from compromised budget 2013-2014) were used to finance 7 TC's projects approved during the CTC meetings in Parma and Miami. This new policy of expenditures towards TCs represents both an important way to strengthen TCs and accomplish the objectives of a non-profit society as ICG.

With the revenues and expenses noted above, we had a profit of 1,942 € after taxes; decreasing the fiscal credit to 936 € and accumulated losses to 1752 €.

In regards to the investments, ICG maintains a part of its capital at BBVA bank, the second largest Spanish bank and ranked 19th in the Global finance world's 50 safest banks. This part of capital was invested in a fund up to June 20, 2016 (80,000 €) ensuring the safe capital + 2,5%/year, 100% guaranteed by the Spanish Central Bank, further interest depending on stock market. At the end of 2015 we had a balance of 88,537 €, with a 10.7% of interest in the whole period. The situation for the new period is quite different in a scenario of vanishing interests in European banks.

The rest of ICG capital and accounts are maintained at BSCH as a way to ensure safety and total guarantee from the Spanish Central Bank. We have invested 25,000 € in fixed deposit plus 60,000 € in shares of BSCH, with a medium rate of 1% in 2015. The interests follow the decreasing tendency of world banks market. At the end of 2015, we had 5,353 € remained in the accounts.

The above summary from Prof. Duran shows a financially healthy situation of ICG and makes us optimistic about and confident of our future. Our decision, described above, to fund TCs' activities is a vital step to strengthen ICG and broaden our activities in support of the glass industry and glass research.

On behalf of the entire ICG and my personal behalf I again thank Prof. Alicia Duran for her outstanding and dedicated long term service to the ICG in her capacity as our treasurer during 2002-2015. I am very pleased that she remains to serve ICG in her role as the Vice President. I

count on her for her valuable counsel as we work together to serve our great organization. I also welcome Dr. Maria Jesus Pascual as our new treasurer.

VII. CTC and Technical Committees Activities

I thank Prof. John Parker, the CTC-Secretary for providing the following write-up. This year is the conclusion of Prof Rene Vacher's chairmanship of CTC after 7 years in the role. During his watch he has had to negotiate a difficult course, TCs activity having been adversely affected by the worldwide recession. We thank him for his invaluable contribution and wish his replacement Prof Hiroyuki Inoue well.

ICG has 22 active technical committees grouped into 5 clusters. The committees in each cluster are led and supported by one member of the Coordinating Technical Committee (CTC). Every year the TCs produce an annual report of their activities and these can be downloaded as pdfs from the ICG web site. The TCs pursue a wide range of activities from Round Robin testing of methodologies to publishing textbooks on their research output. Their domains range from archaeometry to furnace efficiencies, and from optical characterization to education. In the last 2 years a significant fraction of the ICG budget has been deliberately targeted at the stimulation of TC activity. This has resulted in the publication of two major books, has supported several meetings aimed at ICG's road-mapping process and is being used to encourage involvement in ICG by younger scientists and technologists. The Turner prize recognizes the significant contributions made by individual committee members in stimulating TC activity and this year has been given to Dr. Simon Slade, the Secretary of TC13 (Environment) and Prof. Aldo Bocaccinni, one of the core team members for TC04 (Bioglasses).

ICG road mapping has already been mentioned. Another manifestation of this significant process has been the publication of a series of text books under the generic title of 'Making Glass Better'. In 2015 the third book in the series was published by ICG on the role of glass in information and energy technologies. Its content was built around events organized by Professors H. Jain and C. Pantano of USA.

Encouraging the involvement of younger members of the glass community is central to ICG's future vitality. One way we are doing this is via the organization of Schools to provide high level education to new research students and their counterparts in industry. Several academics and experts from industry have committed themselves to supporting these events on an annual basis. In 2016 the 8th ICG Montpellier Summer School will take place in early July and, as in the previous two years, will have two key threads, one on Basic Glass Science and a second on Glass Technology. While formal lectures from renowned experts form the backbone for the event, a key goal is to stimulate interaction and joint working, through question times, tutorials and, in particular, an extended project involving small groups, open ended exercises and an element of competition. Each year those attending (typically 40+ students) form a Facebook group to

maintain their contact, while at the same time discovering that they can talk to and interact with the academics they meet.

Given the ongoing success of the Montpellier event, a winter school was arranged in December 2014 in China, with the support of the previous ICG president, Prof Peng Shou. This too proved successful, and so a second such school will take place in Wuhan, China during March 31-April 4, 2016. This time table, just before the Shanghai ICG congress, has been chosen to encourage participation from beyond the Chinese border. Around 30 students are expected to attend. More detailed information about these schools is available on the ICG web pages, particularly the press releases published there.

VIII. 2016 ICG Awards

The following awards will be presented at the opening ceremony of the 24th International congress on Glass to be held in Shanghai, China during April 7-11, 2016.

- The recipients of the **W.E.S. TURNER AWARD** (inaugurated in 2002 in memory of Prof. W.E.S. Turner and awarded every year to those who have made a noteworthy contribution to the ICG Technical Committee, as noted above, are:

Dr. Simon Slade

Prof. Aldo Bocaccinni

- The recipient of the **GOTTARDI PRIZE** (initiated in 1987 in memory of Prof. V. Gottardi and awarded annually to young people with outstanding achievements in the field of glass in research and development, teaching, writing, management or commerce) is:

Dr. Richard Martin

- The recipient of the **WOLDEMAR A. WEYL INTERNATIONAL GLASS SCIENCE AWARD** (Established in 1976 by Pennsylvania State University in collaboration with the ICG in memory of Prof. W.A. Weyl is awarded once every three years to an outstanding young scientist working in glass research) is:

Dr. Qiang Fu

- The recipients of the **ICG PRESIDENT'S AWARD** (established in 1995 to recognize outstanding lifetime contributions to the international glass community in areas such as scientific discoveries, engineering developments, artistic accomplishments leadership and communications) are:

Dr. Nicholas F. Borrelli (Corporate Fellow, Corning, Inc., USA)

Prof. Akio Makishima (Professor Emeritus, University of Tokyo, Japan)

Prof. John M. Parker (Professor Emeritus, University of Sheffield, UK)

Prof. Peng Shou (President, China Triumph International Engineering Co., Ltd., China)

IX. ICG Meetings

The 2015 Annual Meeting was held during September 20-23, at Centara Grand & Bangkok Convention Centre at Central World in Bangkok, Thailand. On behalf of ICG and my personal behalf, I thank the Conference Chair **Dr. Tepiwan Jitwatcharakomol** of the **Department of Science Service in Thailand** the Conference for a superbly organized and managed meeting. Among the special guests was **Dr. Pichet Durongkaveroj, Minister of Science & Technology, Thailand.**

The meeting was attended by 273 people, and included 4 plenary lectures, 10 invited lectures, 113 oral presentations and 51 posters. As usual, our TCs, the CTC, the Steering Committee, and the Council also held their meetings in Bangkok.

The meeting was excellent in every respect; technical content, logistics, hospitality of our hosts, and social programs.

The Bangkok meeting marked the close of the 3 year presidency of **Prof. Peng Shou**. On behalf of ICG and myself I thank him for his vigorous leadership of ICG and look forward to continue working with him in his role as the member of the Steering Committee and the Chair of the Advisory Committee. **Prof. Alicia Duran** was elected the Vice President and **Dr. Maria J. Pascual** succeeded her as the Treasurer. I once again thank Prof. Duran for her exemplary service to the ICG as its treasurer during 2002-2015 and welcome Dr. Pascual!

The **24th International Congress on Glass** will be held during April 7-11, 2016 in Shanghai, China and I very much look forward to seeing many of you there!

X. Concluding Remarks

It has been about six months since I had the honor and privilege of becoming the ICG President. I hope that this report shows you how intense these six months have been for ICG and how energetically I have worked to undertake initiatives that are critically important for the vitality of our great organization.

We have begun working in each of the areas that I had outlined in my inaugural statement and that are listed below.

- Member Focused Organization
- Attracting and Retaining Young Colleagues
- Strategic Roles for CTC + TCs
- Global Education/Training Outreach through Collaboration
- Explore Financial Resources

The details and progress on these items have been described previously in this report. As a totally volunteer based organization with no paid staff our pace and extent of progress is totally dependent on how active we as volunteers choose to be in service to ICG. The officers of the ICG, and most of all the president needs to set the example. On becoming the president, I pledged to you to serve ICG “with all my passion, energy, and intellect.”

I tell you, with complete sincerity that I have been true to my pledge. I appeal to you to come forward to work with me for the continued vitality and relevance of this great organization that we proudly belong to.