

**PRESIDENT'S  
ANNUAL REPORT  
2011 - 2012**

by

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President

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## **I. INTRODUCTION**

### **Commemorative Colloquium in Honour of Prof. Dr. Juergen Petzoldt**

On the invitation of Schott AG I have been very honoured to participate to the Commemorative Colloquium in honour of Prof. Dr. J. Petzoldt, in Mainz, Germany, at the Erich Schott Centrum, on March 21-22, 2012.

I celebrated a friend, Juergen Petzoldt, President of the International Commission on Glass from 1991 to 1994, died on March 16, 2011, a man that has very deeply marked the life and the development of the ICG; I celebrated him recalling his words on the occasion of his first official speech as President of the ICG in Tokyo on October 16, 1991, that well describe even today his human and professional stature.

### **Foreword**

At the completion of my term of office as the President of the International Commission on Glass (ICG), I wish to express **my warmest thanks and appreciations** to all Members of the **Management Board**, of the **Steering Committee**, of the **Coordinating Technical Committee**, of the **Advisory Committee**, to all active **TC Chairs** and active **TC Members**, and to the Members of the most recent new Committee, the **Communication Bureau**.

Their personal, voluntary and enthusiastic participation have been, are and will be the necessary elements for the success of the ICG.

My third and last year of office started on April 1, 2011, in Shenzhen, at the end of an historical meeting of the ICG Council, during which the “Winds of Change”, started in Vancouver on 2009, continued to blow.

In that occasion the Council appointed unanimously and for the first time contemporarily, the President Elect and his future Vice President: **Prof. S. Peng and Dr. M. Choudary, a ticket that will take office at the end of this meeting**, and will certainly grant a further strong development of the ICG.

To support them I invite the Council to **reappoint Prof. A. Duran as Treasurer and Dr. P. Simurka as Executive Secretary**, in order that they can continue their invaluable work.

In this particular and strategic moment on which we are doing a big effort in trying to involve more in depth some important National Participating Organization and we are opening to new countries, associations and glass companies, we need to strengthen more than in the past the already existing strong ties among the main country actors of ICG and their representatives.

This is the reason why I invite you to approve a “conservative” **composition of the Steering Committee**, considering that Dr. H. Arribart, Dr. L. Belmonte and Dr. R. Langfeld are at the end of their terms of office and that Dr. Manoj Choudhary is going to assume the Vice Presidency of ICG. **B. McMillan** and **M. Tatsumisago** will continue their membership, **F. Nicoletti** will substitute the previous past president, Dr. Hervé Arribart; **the two seats of L. Belmonte and R. Langfeld vacant for one year**, in order to have the possibility to reappoint them for another

three years term in Praha in 2013, and having they granted to continue their participation and collaboration also in form of “invited persons”. To further strengthen the Steering Committee **I invited to join us Prof. Dr. Sener Oktik**, Executive Vice President, Research & Technological Development, Turkiye Sis eve Cam Fabrikalari A.S., whose presence and collaboration will certainly improve the ICG results.

To complete and increase the **Coordinating Technical Committee, CTC**, backbone of ICG, we need to **reappoint its Chairman Prof. R. Vacher and one of its member, Dr. V. Rupertus**, for their second term, and to **substitute three out of six members at the end of their five years term** of office, and namely: Prof. R. Brow, Prof. J. Qiu, Prof. J. Matsuoka. In their place we invited to **assume the CTC Membership the following renowned persons: Prof. K. Richardson**, Director, School of Materials Science & Engineering, Clemson University; Prof. **XJ. Zhao**, Director, The State Key Laboratory of Silicate Materials for Architectures, Wuhan University of Technology; **Prof. H. Inoue**, Department of Materials Engineering, University of Tokyo.

Together with **Prof. R. Beerkens**, Vice Chairman, **Dr. H. Sesigur**, member appointed in 2011 in Shenzhen, and **Prof. J. Parker**, CTC Secretary, they will continue the restructuring of the CTC clusters according to the most functional interaction among the present and future TCs, and provide for the correct development of their activities.

Within this framework in Shenzhen we appointed three new TC Chairpersons (TC 03 “**Basic Glass Science**”: **Dr. F. Muñoz Fraile**; TC 25 “**Modelling of Glass Forming Processes**”: **Dr. A. Karadag**; TC 27 “**Atomistic Simulation**”: **Dr. J. Du**) and we are going to appoint a new one for TC 20 “**Glasses for Optoelectronics**”: **Dr. G.C. Righini**.

According to its mission, **the Advisory Committee, AC, contacted in 2011 the higher levels of more than 20 glass companies** with the aim to identify with their help the role ICG should have within the global glass industry and the main needs of the latter. The results of such interviews, *herewith attached*, have been thoroughly examined and discussed by the Steering Committee during its last dedicated meeting on March 6, 2012, at Sise Cam, in Istanbul. On that occasion the current situation in the ICG and all questions regarding its role within the global glass industry have been considered.

The **Advisory Committee** has been recently **integrated by Prof. M. Tatsumisago and assumed also a financial advisory function**. In the meantime we had the resignations from it of Dr. M. Greenman, after his retirement from the GMIC. For this reason we invited to assume the same position of “**Ambassador**” for North America **Prof. A. Varshneya**, Alfred University.

According to the indications of the Council the TC 1 “Information and Communication” merged to a new structure **the Communication Bureau, CB, led by Dr. B. McMillan** and comprising: **Prof. J. Parker, Dr. K. Bange, Prof. A. Duran, Prof. R. Vacher, Prof. M. Tatsumisago**.

The Communication Bureau has:

- to control and coordinate all forms of ICG communication (press releases, leaflets, brochures, papers, technical documents, books, etc.) diffusing them through all possible communication channels (TV, web, press, journals, etc.)
- to watch over the scientific structure of the ICG Congresses and Conferences, through the Permanent Advisory Board, that comprises the last three members of the CB.

In spite of our continuous efforts aiming at improving and extending the presence and **participation of Russia** in the framework of ICG, there is nothing new to report about the

National Commission on Glass of Russia. In the meantime it is our aim to present the International Commission on Glass at the 6<sup>th</sup> International Glass Conference “Stekloprogress-XXI” to be held on May 15-18, 2012, in Saratov, Russia, organized by the Saratov Glass Institute. On that occasion we intend to verify the possibility that other Russian institutions/associations/bodies, mainly representing the Russian glass industry, may join the ICG.

Nevertheless the membership of the ICG is growing rapidly, mostly thanks to the possibilities offered by our new Constitution and namely the Associated Organizations and the Associated Member Companies.

**In the case of India** in fact we expect to receive the official application of **All India Glass Manufacturers Association** to be **Associated Organization** of ICG, thus granting us also the contact with glass companies of India.

In the meantime we received the **application of the Iran Glass Association** to become the National Participating Organization **representative of Iran** and I hope to submit you soon for approval, after verifying they satisfy the requisites of our Constitution.

Within the same framework I am very happy to inform you that the Steering Committee could verify that the following candidates satisfy the requisites of our Constitution, and to ask for the approval of :

**-Bundesverband Glasindustrie e.V. (BV Glas)** of Germany, as Associated Organization of ICG;

**-Avic Sanxin**, of China, as Associated Member Company of ICG;

**-China Triumph International Engineering Co. (CTIEC)** of China, as Associated Member Company of ICG;

**-Viglacera**, of Vietnam, as Associated Member Company of ICG.

In the spirit of our Constitution we have identified the international body that might represent the art of glass inside the International Commission on Glass, the **Glass Art Society**, and we are looking forward to welcome them soon.

Once more in spite of the world economic crisis and as a proof of the vitality of the world glass community and of ICG attraction we had **in Shenzhen, China, a very successful ICG Annual Meeting 2011 in conjunction with the 1<sup>st</sup> Hi-Tech International Forum on Glass Congress**.

286 participants (71 of which students) coming from 19 countries, 7 invited lectures, 100 oral presentations, 15 posters testify its success, and emphasize the important contribution China is giving for its integration inside ICG and for the improvement and success of the latter.

Among the most important events there are:

-the third successful annual **ICG Summer School** that took place in Montpellier, France, at the Laboratoire Charles Coulomb of Université Montpellier II, from **4 to 8 July 2011**, organized by **Prof. B. Hehlen and Prof. J. Parker**, attended by 29 students and focusing on “**Glass Structure and Properties: from Basic Science to Works of Art**”.

-the **ICG Training Course on “Glass Coatings Produced by Sol-Gel”**, organized by **TC 16 and TC 23** in Monterrey, Mexico, on November 21-23, 2011.

-the “International Commission on Glass-Parenteral Drug Association **Workshop on Glass for Pharmaceutical Packaging**”, organized by **Dr. K. Bange and Dr. V. Rupertus**, in Berlin on

March 12, 2012, the results of which, described in the press release *herewith attached*, suggest to set up a new Technical Committee dealing with the new challenges that pharmaceutical glasses have to face in front of new bio-drugs.

-**the book** being published by Wiley “**Bio-Glasses: an introduction**”, edited by **Prof. A. Clare and Prof. J. Jones**.

-the major **NSF grant in the US** to study mixed glass former effects using atomic simulations, by **TC 27**.

-the recent **rationalization of the Clusters Structure** by CTC.

### Presentations by the President

I am proud to mention that I was invited to several important events to represent and to present the International Commission on Glass, and namely:

- Meeting of the Executive Committee of the Glass and Optical Materials Division of the ACerS, in Savannah, GA, USA, on May 15, 2011;
- The Ninth International Conference on Advances in the Fusion and Processing of Glass, in Cairns, Australia, on July 12, 2011;
- The Fifth Balkan Conference on Glass Science and Technology, in Nessebar, Bulgaria, on September 26, 2011;
- The Slovak and Czech Conference on Glass, in Trencianske Teplice, Slovakia, on December 1, 2011.

## **II. MEMBERSHIP**

Under approval of the Council there are today **33 members country** of ICG, represented by the following **National Participating Organizations**:

Argentina	Instituto Nacional de Tecnologia Minera (INTEMIN - Segemar)
Australia	Australian Ceramic Society
Belgium	INISMa - Institut Scientifique du Verre
Brazil	Associacao Technica Brasileira das Industrias Automaticas de Vidro (ABIVIDRO)
Bulgaria	Bulgarian Commission on Glass
Canada	Dalhousie University, Institute for Research in Materials (IRM)
China	Chinese Ceramic Society (CCS)
Czech Republic	Czech Glass Society (CGS)
Denmark	Danish Ceramic Society
Finland	Glaston Finland Oy
France	Institut du Verre (IV)
Germany	Deutsche Glastechnische Gesellschaft (DGG)
Greece	Hellenikos Hyalourgikos Syndesmos
Hungary	Szilikatipari Tudomanyos Egyesulet
India	Central Glass and Ceramic Research Institute
Italy	Stazione Sperimentale del Vetro (SSV)
Japan	Ceramic Society of Japan (CSJ)
Korea	Korean Ceramic Society
Liechtenstein	Ivoclar AG
Mexico	Vitro, Vidrio y Cristal, S.A. de C.V.
Netherlands	National Comité van de Nederlandse Glasindustrie (NCNG)
Poland	Institute of Glass and Ceramics, IGC, Cracow Branch
Portugal	ICEMS, Instituto Superior Tecnico

Romania	Universitatea Politehnica din Bucuresti
Russia	National Commission on Glass (NCG),
Serbia	University of Novi Sad, Faculty of Technical Sciences
Slovakia	Slovak Glass Society (SGS)
Spain	Sociedad Espanola de Ceramica y Vidrio (SECV)
Sweden	Glasforskningsinstitutet (GLAFO)
Thailand	Bureau of Community Technology, Dept. of Science Service, Ministry of Science and Technology
Turkey	Türkiye Şişe ve Cam Fabrikaları, A.Ş.
UK	Society of Glass Technology (SGT)
USA	American Ceramic Society (ACS)

**three Associated Organizations :**

- European Society of Glass Science and Technology (ESG)
- Glass Manufacturers Industry Council of USA (GMIC)
- Bundesverband Glasindustrie e.V. of Germany (BV Glas)

**three Associated Member Companies:**

- Avic Sanxin, China
- China Triumph International Engineering Co. (CTIEC), China
- Viglacera, Vietnam

**III. OFFICERS**

Under approval of the Council the structure of the ICG, starting from June 6, 2012, will be the following:

**Management Board**

President	Shou	PENG	(12-15)	China
Vice President	Manoj	CHOUDHARY	(12-14)	USA
Treasurer	Alicia	DURAN	(12-13)	Spain
Executive Secretary	Peter	SIMURKA	(12-13)	Slovakia
CTC Chair	René	VACHER	(12-14) (16)	France

**Steering Committee**

S. Oktik	(12-15)	Turkey
F. Nicoletti	(12-15)	Italy
B. McMillan	(11-14)	UK
M. Tatsumisago	(10-13)	Japan
° Vacant seat		
° Vacant seat		

**Advisory and Financial Committee**

European Union	K. Bange (Coordinator)	Germany
North America	A. Varshneya	USA
South America	L. Belmonte	Brazil
Asia	S. Peng	China
Japan	M. Tatsumisago	Japan

### Communication Bureau

B. McMillan (Coordinator)	UK
A. Duran	Spain
R. Vacher	France
K. Bange	Germany
J. Parker	UK
M. Tatsumisago	Japan

### Coordinating Technical Committee

Chairman	: R. Vacher	(12-14) (16)	France
Vice-Chairman	: R. Beerkens	(10-13) (15)	Netherlands
Secretary	: J. Parker	(96- )	UK
Members	: V. Rupertus	(12-14)	Germany
	: H. Sesigur	(11-14) (16)	Turkey
	: K. Richardson	(12-15) (17)	USA
	: H. Inoue	(12-15) (17)	Japan
	: XJ. Zhao	(12-15) (17)	China

## IV. MEETINGS OF THE COUNCIL, MANAGEMENT BOARD, STEERING COMMITTEE, COORDINATING TECHNICAL COMMITTEE

-The Annual Meeting 2011 of the International Commission on Glass was held in Shenzhen, China, in conjunction with the 1<sup>st</sup> Hi-Tech International Forum on Glass.

On that occasion on March 31<sup>st</sup> and April 1<sup>st</sup>, 2011, were held the meetings of the Management Board, CTC, the Steering Committee and the Council of the ICG.

-The Coordinating Technical Committee and the Steering Committee had a second meeting in 2011 in Piombino Dese, Venice, on November 10-11, 2011.

-The Steering Committee had the first meeting of 2012 on March 6, in Istanbul at Sise Cam.

Besides the above mentioned meetings the members of the Management Board, Steering Committee and Coordinating Technical Committee, interacted regularly via telephone conferences on a regular monthly/bimonthly basis.

## V. FINANCIAL SITUATION

The International Commission on Glass includes at present

-**33 countries**, represented by the respective National Participating Organization (national glass societies, institutes, universities, glass companies);

-**3 Associated Organizations;**

-**3 Associated Member Companies.**

The main financial source of the association is based on **the membership fees**, that for the NPO are calculated from the yearly national glass production and organised in **four different categories**. The fees are updated each year with inflation rate (2%).

The present structure of fees valid from 2011 is the following:

-China, France, Germany, Italy, Russia and USA, pay the highest rate, **1400 €/y** ;

-Japan, Korea, Mexico, UK and Spain, pay **934 €/y**;

-Australia, Belgium, Brazil, Czech Republic, India, Netherlands, Poland, Thailand and Turkey, pay **467 €/y**;



-Argentina, Bulgaria, Canada, Denmark, Finland, Greece, Hungary, Liechtenstein, Portugal, Romania, Serbia, Slovak Republic and Sweden, pay **375 €/y** .

The **Associated Member Companies** contribute yearly paying **half of the highest NPO fee** while the **Associated Organizations** pay **half of the lowest NPO fee**.

The other financial sources are the sales and copyright from ICG publications and the selling of References Glasses, counted for the 6 % of total 2011 revenues (2.493 on 39.492 €).

The incomes 2011 were 39.492 €, while the expenses have been 23.245 €.

According to our Balance Sheets of the last three years (on 31/12/2011 our assets are 212.854,61 €, while on 31/12/2010 they were 180.068,64 €, and on 31/12/2009 were 200.030,34 €) and according to our corresponding bank situation (192.959,84 € in 2009, 173.109,50 € in 2010 and 189.057,29 € in 2011) we can conclude **we have a working capital always balanced and consolidated liquidity and investments, also in spite of some extraordinary expenses.**

Being a non-profit association I agree once more with the conclusion of our Treasurer **showing us “a scenario of healthy accounts that allows an optimistic belief on the future of our association and a possibility of expansion of our activities in the next future”.**

In order to avoid the risk to lose money, as a consequence of the global credit crisis, our capital has been recently subdivided between the two major banks of Spain, the BSCH and the BBVA, that ensure its safety and total guarantee from Spanish Central Bank.

Nevertheless in order to strengthen ICG's capability to fulfil its role (*to serve as an international centre for the exchange of information, to assist in all places in the development of interests shown in glass, to encourage the periodic holding of international congresses and colloquia concerning glass, to prepare and publish reports and surveys*), there is no doubt that every effort has to be done in order to identify all possible and potential finance sources at the national and at the international level.

## VI. CTC AND TECHNICAL COMMITTEES ACTIVITIES

### Chairmanship of the Technical Committees:

(the asterisk means that a New Chair has to be found)

TC02 “Chemical Durability and Analysis”:	Dr. S. Jamieson
TC03 “Basic Glass Science”:	Dr. F. Munoz
TC04 “Glasses for Medicine and Biotechnology”:	Dr. J. Jones
TC05 “Nuclear and Hazardous Waste Vitrification”:	Dr. J.C. Marra
TC06 “Mechanical Properties of Glass”:	Dr. R. Hand
TC07 “Nucleation, Crystallisation & Glass Ceramics”:	Prof. E. Zanotto
TC08 “Glass Transition”:	Prof. L. Wondraczek
TC10 “Optical Properties of Glass”:	Dr. C. Anderson*
TC11 “Materials for Glass Manufacturing”:	Dr. M. Dunkl
TC13 “Environment” :	Dr. G. Van Marcke
TC14 “Gases in Glass”:	Dr. D. Koepsel
TC15 “Sensors and Advanced Control”:	Mr. W. Linz*
TC16 “Nanostructured Glasses”:	Prof. R.M. Almeida
TC17 “Archaeometry of Glass”:	Dr. S. Koob
TC18 “Properties of Glass-forming Melts”:	Prof. Dr. R. Beerkens
TC19 “Glass Surface Diagnostics”:	Dr. V. Rupertus*
TC20 “Glasses for Optoelectronics”:	Prof. G. Righini
TC21 “Modelling of Glass Melting Processes”:	Mr. E. Muijsenberg
TC22 “Structure-Property Relations”:	Prof. G. Calas

TC23 “Education & Training in Glass Sc. and Tech.”	Prof. R. Conradt
TC24 “Coatings on Glass”:	Dr. K. Sanderson
TC25 “Modelling of Glass Forming Processes”:	Dr. A. Karadag
TC26 “Vibrations & Structure”:	Prof. B. Hehlen
TC27 “Atomistic Simulation”:	Dr. J. Du

The performance and the work quality of **the TCs**, that include more than 500 members, **are improving further** together with their visibility thanks to the ICG and the TCs web-sites.

The impressive quantity of them and their high quality, together with the plan of activities for the forthcoming years are evident taking a look at the **CTC Annual Report** prepared by the Chairman of the CTC, **Prof. R. Vacher**, some highlights of which I am pleased to report:

- the third ICG Summer School organized by Prof. B. Hehlen and Prof. J. Parker in Montpellier on July 2010;
- the successful actions of the Communication Bureau, and mainly the new ICG web-site and the Press Releases;
- the planning of short and master courses by TC 03 for 2013;
- the development of an ASTM Standard on Liquidus Temperature Measurement by TC 05;
- the planning of an International Symposium on Glass Crystallisation by TC 07 for 2012;
- the planning of the Third Symposium on Glass and Entropy by TC 08 for 2012;
- the merging of TC 11 and TC 14 into one new TC: “Glass Melt Quality & Glass Defects”;
- the celebration of the 25<sup>th</sup> Anniversary of TC 13 in Maastricht on June 6, 2012;
- the merging of TC 15 and TC 21 into a new TC: “Glass Furnace Design & Operation”;
- the development of a new role of TC 17 in setting up a world network of glass museums;
- the Expert Meeting on Structure and Vibrations on March 2011 in Montpellier, by TC 26;
- the co-organisation of the NCM11 Conference 2011 in Paris, by TC 22;

## VII ICG AWARDS 2011

During the Opening Ceremony of the of the 1<sup>st</sup> Hi-Tech International Forum on Glass, on March 31<sup>st</sup>, 2011, in Shenzhen, China, the following ICG Awards have been presented:

**-Gottardi Prize** (awarded every year, commemorating the former ICG President Prof. Dr. Vittorio Gottardi, died in 1985, recognizing meritorious research, development, teaching, writing, management or commercial achievements in the field of glass of young people, under 40) *presented to Dr. J. Mauro.*

**-W.E.S. Turner Award** (awarded every year, instituted in honour of Prof. William E.S. Turner, ICG President from its creation in 1933 till 1953 and Honorary President till his death in 1963, to recognize outstanding achievements and activities in connection with the Technical Committee work of the ICG) *presented to Prof. R. Conradt.*

## VIII ICG ANNUAL MEETINGS AND INTERNATIONAL CONGRESSES

**-Annual Meeting 2012** in conjunction with the ESG International Conference, June 4<sup>th</sup> – 6<sup>th</sup>, Maastricht, the Netherlands;

**-XXIII International Congress on Glass**, July 1<sup>st</sup> – 5<sup>th</sup>, 2013, Praha, Czech Republic;

- Annual Meeting 2014** in conjunction with the 12<sup>th</sup> ESG International Conference, September 22-25, Parma, Italy;
- Annual Meeting 2015**: to be decided;
- XXIV International Congress on Glass, 2016**, Shanghai, China;
- Annual Meeting 2017**: to be decided;
- Annual Meeting 2018**: to be decided;
- XXV International Congress on Glass, 2019**: to be decided.

## IX CONCLUSIONS

When I took over the Presidency of the International Commission on Glass, on June 2, 2009, in Vancouver, I said that the Winds of Change had to blow after the setting up, in Trencin, Slovakia, in 2008, of our new and modern Constitution.

On that occasion I listed six major steps to be pursued by the ICG:

1-a major involvement of the BRIC countries; 2-a major involvement of the “high levels” of glass companies; 3-a major participation of the National Participating Organisations; 4-a major involvement of the Steering committee Members; 5-the involvement of the art and history of glass; 6-the orientation of all ICG TCs activities to a modern Sustainable Low-Carbon Society.

You could verify from this report that something has been done and something more is in progress and will be hopefully concluded soon positively.

Nevertheless the last and most important point, the 6<sup>th</sup>, requires the major focus and the maximum of attention, mainly in consideration of the present economic and social world situation.

For this reason the winds of change must continue to blow at the aim of urging:

- the education in glass;
- the improvement of the quality of the products and the yields of the processes;
- the overcome of environmental problems through new melting processes reducing energy needs and emissions;
- the application of glass in generating, saving and storing energy technologies;
- the fundamental research necessary to prepare the next generation of glass products;
- the development of new glass applications, including the combination of glass with other materials, and new glass and glass-ceramic compositions;
- the development of added value glass products through the modification of glass surfaces.

I know that my successor Prof. S. Peng and his deputy Dr. M. Choudary, feel committed to the further development of these activities for which further great efforts are required.

In accordance with my 36 years experience inside the ICG, I can assure them it is a “possible” mission and I am proud to say that these last three years I spent chairing the ICG and forwarding its mission and objectives, have always been invested very actively and lived in a sincere friendship and togetherness, which is the fundamental basis of a genuine and fruitful cooperation to build the future.

*Vivat, crescat, floriat*  
the International Commission on Glass