



International Association for  
Cereal Science and Technology

# Activity Report

2016







# WHOLE GRAIN SUMMIT 2017

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## ■ Foreword

*Dear Colleagues, Dear Members, Dear Friends:*

*I would like to thank you all for your help, support, and collaboration during 2016 reaching out to our members and realizing the Association's aims. Our objectives to develop an association that is represented globally as well as to bring more services to its members has been pursued during the past year. New members have also joined our association. We are pleased to welcome the new corporate members: Kastenmüller GmbH from Germany, and RBML Food Microbiology Labs from Lebanon. ICC also newly offers individual membership which is open for any natural person wishing to promote and contribute to the aims and activities of the Association.*

*Involvement in international research projects (e.g. iFAAM, MycoSpec, Capsuled, MyNewGut, and MyToolBox) and the (co-)organisation of international events and special sessions remain an anchor of ICC's activities (15th ICC Cereal and Bread Congress in Istanbul Turkey, 9th International Symposium of Food Science in Shenyang, China, ICC Luncheon in Savannah, USA and the 30th EFFoST International Conference in Vienna Austria).*

*Developing internationally accepted standard methods for grains and grain based products is also still one of the primary objectives of the ICC. A number of new working groups have already been established in which we will be committed to constituting an efficient international participation. Eng. Amine Jbeily was elected as new Technical Director and the former Technical Director, Dr. Meinolf Lindhauer continues to share his valuable experience and support Amine and the new Technical Committee as Technical Co-Director. We highly appreciate Dr. Lindhauer's contribution to leading ICC standardization for more than 10 years. Together they are ready to lead the new Technical Committee working better on developing and updating cereal related standard methods.*

*All this work would not have been possible without the help of the whole ICC team at the Vienna-based Headquarters and the wise advice of the Governing Committee members. It was a pleasure working with all of them forming a friendly and efficient team. It is also time to thank Michaela Pichler who ensured her mission as a new Secretary General of ICC having worked with us since January 2015.*

*As Immediate Past President, I would like to wish my successor Dr. Hamit Köksel from Hacettepe University, Turkey and the ICC President Elect, Dr. Stefan Wagener from Canadian Grain Commission, Canada, fruitful leadership for the next period ahead. I assure them both my personal support for the coming years and I express my best wishes for them to lead ICC closer to our goals and to satisfy the Association's expectations.*



*Fengcheng Wang*

ICC President 2015-2016

*Dear all,*

*In the past year, we continued to make the international activities of our organization more visible by seeking to respond even more to the needs of our members. Following our original aim we continued acting as a partner in international and EU funded research projects and are happy that we could start a new project on mycotoxins in 2016. Again ICC has also contributed to the dissemination of scientific and technical knowledge by co-organizing international conferences and sessions at events in different regions of the world.*

*This period was also marked by an in-depth reflection within ICC to better share our vision for the future and to better involve every member of ICC in both strategic activities and dissemination. As an example, the ICC Technical Committee, an important representative body for ICC, was restructured to include a wide range of expert representatives of the various ICC members and to strengthen the ICC standardization work.*

*In addition, the missions of ICC Governing Committee and Executive Committee as well as the ICC Statutes and By-Laws have been revised in order to improve efficiency of our organization by providing a clear and easy to follow structure.*

*We are now also happy to welcome the individuals that have already supported the work of ICC as Individual Member! This new membership form has been created to include those who are interested in contributing to the Association's aims and to the advancements in the cereal community. Today, many branches of science require even stronger international collaboration than before and ICC actively pursues the development of links within the worldwide cereals and grains community from its Secretariat based in Vienna.*

*It is always a pleasure to meet international experts working in the field of cereal science and technology at ICC and related events. Their engagement and valuable contributions show that ICC is an outstanding association that enjoys strong support around the world.*

*I sincerely thank all people involved and look forward to future activities within the "ICC family".*



*Michaela Pichler*

ICC Secretary General / CEO

## ■ ICC – A trusted International Association since 1955

First called the International Association for Cereal Chemistry (**ICC**), it was founded in 1955 on the occasion of the Third International Bread Congress in Hamburg. ICC's stated main objectives were to develop and standardize investigation methods for cereal grains and cereal-based products. The continuing international trade of grains and the emergence of new growers and producers still require internationally acceptable standard methods for evaluating grains in terms of their physical, chemical and nutritional properties.

Due to its strong country membership base, the ICC provides unique opportunities for cereal scientists and technologists around the world, to collaborate in developing new knowledge on cereal grains and their products, and the methods used in their evaluation.

A key means by which ICC's objectives are achieved, has been and continues to be through the promotion of conferences, symposia, workshops and working parties, all of which bring the international family that is ICC closer together. In more recent times ICC has established a journal – Quality Assurance and Safety of Crops and Foods (QAS) – to augment the dissemination of scientific and technical information to the international community.

As the ICC has achieved another milestone celebration it not only looks back to the eventful past but also into a promising future. The nature of the international cereals business is changing and as it does so, ICC will change with it by blending its traditional membership offerings with new services and products. By combining the strength of the old with the challenges and rewards of the new we hope that the ICC can look forward to many more successful years.

## ■ ICC Mission Statement

ICC is the pre-eminent international association in the field of cereal science and technology, committed to international cooperation by disseminating knowledge, conducting research and developing standard methods that contribute to advance innovation, improve food quality, food safety and food security for the health and well-being of all people.

### **In order to achieve our mission:**

- We offer membership to countries, corporations, institutions and individuals.
- We hold responsibility for international co-operation and provide a forum for dialogue and appreciation of new ideas to promote the utilisation of cereals.
- We are inspired by the ideals of advancement in cereal science and technology.
- We promote domestic and international trade by providing uniform and internationally approved and accepted testing procedures.

### **Our ultimate objectives are that we want to:**

- Involve all interested countries, institutions, organisations and individuals as members.
- Cooperate and exchange views with all institutions and organisations active in cereal science and related fields.
- Attract all the world's cereal scientists and technologists to cooperate with ICC.
- Establish and maintain contacts among cereal scientists and technologists, concerning scientific and technological studies with a view to taking up, promoting and coordinating research activities.
- Organise programmes of lectures and discussions.
- Publicise standards for test methods and similar documents in cereal science and technology and related fields.

## ICC Structure and Governance

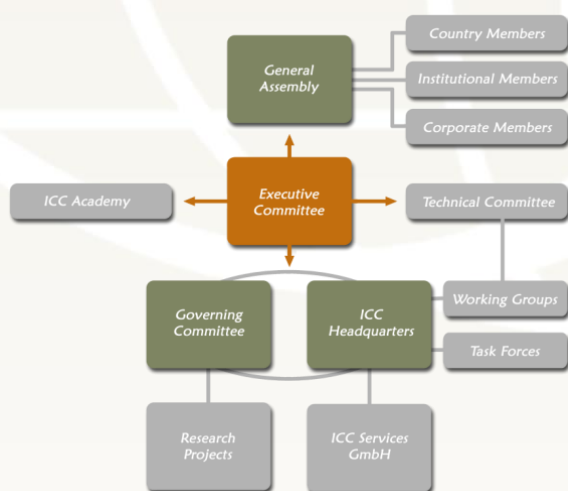


Figure 1

Representatives as well as representatives of Corporate, Individual and Honorary Members. This representative body physically meets every two years and has the following tasks: admission of new ICC members as well as termination of membership, appointment of the President Elect, elect the Auditors of the Association, approval of the statement of annual accounts, determination of membership fees and approval of relevant budget, adoption of (draft) standard methods and other documents, amendment of the Statutes.

The General Assembly elects also the members of the **Executive Committee** which is more closely involved with the practicalities of the Association and develops recommendations on ICC activities. It appoints also the **Secretary General** as well as the Technical Director and sets up Working Groups.

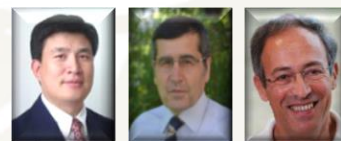
A small group of senior ICC officials, the **Governing Committee** meets regularly with the Secretary General to discuss general management aspects.

Two bodies of further importance for the governance structure of the ICC are the **Technical Committee**, which oversees the development and standardization of existing and new methods and the **ICC Academy**, which is composed of individuals whose contributions to cereal science and to the advancement of ICC objectives have been recognized by their peers. Particular functions of the Academy are to advise on the conferring of ICC awards to individuals who have made outstanding contributions to cereal science and to contribute with expertise to the development of new ICC activities. The relationship between the various formal bodies of the ICC and their reporting structures are illustrated above in the figure 1.



## ICC – OFFICIALS and COMMITTEES in 2016

**President:** Dr. Fengcheng WANG, China  
**President Elect:** Dr. Hamit KÖKSEL, Turkey  
**Past President:** Dr. Joel ABECASSIS, France  
**Technical Director:** Eng. Amine JBEILY, Lebanon  
**Co-Technical Directors:** Dr. Meinolf G. LINDHAUER, Germany



**Secretary General:** MSc. Michaela PICHLER, Austria



**Honorary Presidents:** Mr. Stanley CAUVAIN, UK  
Prof. DDr. Ing. Rádomir LÁSZTITY, Hungary  
Prof. Dr. Okkyung Kim CHUNG, USA  
Mr. Bob CRACKNELL, Australia  
Drs. Jan Willem VAN DER KAMP, The Netherlands  
Prof. John TAYLOR, South Africa

**Auditors:** Dr. Erich GEBHARDT, Germany  
Dr. Pierre GÉLINAS, Canada

### ICC - Executive Committee:

In 2016 the ICC Executive Committee comprises

- The President
- The President Elect
- The Past President
- The Technical Director
- The members elected by the General Assembly
  - Dr. Joel ABECASSIS, France
  - Dr. Dhan BHANDARI, United Kingdom
  - Dr. Charles BRENNAN, New Zealand
  - Dr. Martha CUNIBERTI, Argentina
  - Dr. Wenping DING, China
  - Dr. Floyd DOWELL, USA
  - Dr. Ximena LOPEZ, Chile
  - Dr. Regine SCHOENLECHNER, Austria
  - Dr. Awad SOKRAB, Sudan
  - Dr. Bin XIAO FU, Canada
  - Drs. Jan Willem VAN DER KAMP, The Netherlands

- Institutional Member Representatives  
Dr. Maria PAPAGEORGIOU, Greece  
Dr. Rachel HSU, Chinese Taipei
- Corporate Member Representatives  
Dr. Arnaud DUBAT, France  
Dr. Sigrid HAAS-LAUTERBACH, Germany
- The Ex officio member  
MSc. Michaela PICHLER, Austria

### **ICC - Governing Committee:**

In 2016 the ICC Governing Committee comprises

- The President
- The President Elect
- The Immediate Past President
- The Honorary Presidents
- Invited persons  
Eng. Amine JBEILY, Lebanon  
Prof. Dr. Meinolf G. LINDHAUER, Germany  
Dr. Floyd DOWELL, USA  
Dr. Marina CARCEA, Italy
- The Ex officio member  
MSc. Michaela PICHLER, Austria

### **ICC - Technical Committee:**

The ICC Technical Committee comprises

- The Technical Director or in his absence the President Elect
- The Technical Co-Director
- The Chairs of the Working Groups
- The Technical Committee Members  
Dr. Mustafa ABDELMONIM, Sudan  
Dr. Paul ARMSTRONG, USA  
Dr. Charles BRENNAN, New Zealand  
Mr. Andreas DOSSENBACH, Switzerland  
Dr. Floyd DOWELL, USA  
Dr. Bin Xiao FU, Canada  
Mrs. Alexandra HUESKEN, Germany

Dr. Rachel HSU, Chinese Taipei  
DI Christian KUMMER, Austria  
DI Alfred MAR, Austria  
Mr. Barry McCLEARY, Ireland  
Mrs. Leticia MIR, Argentina  
Dr. Dubravka NOVOTNI, Croatia  
Dr. Assoc. Prof. Maria PAPAGEORGIOU, Greece  
Dr. Gabriela PÉREZ, Argentina  
Dr. Johan J. PLIJTER, The Netherlands  
Mrs. Marie-Francoise SAMSON, France  
Dr. Elisabeth SCIURBA, Germany  
Dr. Ashutosh UPADHYAY, India  
Dr. Fengcheng WANG, China  
Dr. Zeliha YILDIRIM, Turkey

- Technical Committee Advisors  
Dr. Mark BASON, Australia  
Mr. Zeki DEMIRTASOGLU, Turkey  
Mr. Wenping DING, China  
Ing. Arnaud DUBAT, France  
Mr. Sergej GALL, Germany  
Prof. Grazina JUODEIKIENE, Lithuania  
Dr. Markus LACORN, Germany  
Mr. Darren ROBEY, Denmark  
Prof. Hui SUN, China
- The Ex officio member  
MSc. Michaela PICHLER, Austria

ICC thanks all ICC Officials and Committee Members who served the Association in 2016!

## ICC – Headquarters in 2016

Together with the ICC Committees the team at the ICC Headquarters in Vienna, Austria, supports the activities within ICC and are the primary contact point for all members and friends of ICC:

- MSc. Michaela PICHLER, ICC Secretary General
- Ms. Sabine GRATZER, Membership and Office Administration, QAS Editorial Management
- Ms. Sieglinde DICHTL, Office Management and Business Administration
- MSc. Marcella GROSS-VARGA, Communication and Event Management
- Dott.ssa Caroline PLACCHETTA, Project and Event Management
- Ing. Robert ALLERSTORFER, IT Management and Software Development
- Ms. Diana ELWIN HYDE, Graphic Design



## ICC Membership

ICC is a membership-based organisation with the following members in 2016:

**24 Country Members**

**36 Corporate / Institutional Members**



ICC - A unique platform connecting cereal scientists and technologists around the world

Numerous Individual Members and representatives in more than **86** countries

Main Membership **Benefits** are:

- Free online access to all ICC Standard methods for National Delegates and Deputy National Delegates
- Discounts for *ICC Members* for participation in ICC supported conferences
- Free subscription to the ICC scientific journal QAS - Quality Assurance and Safety of Crops & Foods
- Contribution to international standards and harmonization efforts
- Facilitated access to national and international research projects/studies
- Access to an international network of professionals
- Participation at the ICC Working Groups and Task Forces
- Free notifications of EU Scientific & Regulatory Updates for National Delegates and Deputy National Delegates
- Hosting an international meeting tailored to local or regional needs in your country, (co-)organized by ICC



## Country Membership

ICC Country Membership is open to all countries that aspire to the aims and objectives of ICC as outlined in its Statutes. In order to become a member, one or more public or private institutions or organisations in the country

must be willing to play an active role and promote the activities of the Association. Such institutions are also called Country Member Organisations. The annual membership fee varies according to the population of the Member Country, and is divided into three categories with the following amounts as follows:

- Category A with less than 10 million inhabitants: € 2,950.-
- Category B between 10 and 50 million inhabitants: € 4,950.-
- Category C with more than 50 million inhabitants: € 6,950.-

	Country	Member Organisation	Entry year	National Delegate	Deputy National Delegate(s)
1	AR (Argentina)	<u>National Institute of Agricultural Technology (INTA)</u>	1963	Dr. Chem. Eng. Martha Cuniberti	Dr. Maria José Martinez
2	AT (Austria)	<u>Austrian Milling Association</u>	1958	DI Alfred Mar	DI Christian Kummer DI Peter Stallberger
3	AU (Australia)	<u>AEGIC</u>	1959	Dr. Larisa Cato	Dr. Michael Southan Dr. Hayfa Salman
4	BE (Belgium)	<u>Walloon Agricultural Research Center</u>	1958	Dr. Georges Sinnaeve	--
5	CA (Canada)	<u>Canadian Grain Commission</u>	1958	Dir. Stefan Wagener	Bin Xiao Fu
6	CH (Switzerland)	<u>ICC-Switzerland</u>	1960	Dr. Fabio Mascher	Cécile Brabant-Hyondelle
7	CL (Chile)	<u>Granotec Chile S.A.</u>	2010	Ing. Ximena López	Ing. Agr. Soledad Hidalgo Guerra
8	CN (China)	<u>Chinese Cereals and Oils Association (CCOA)</u>	1990	Ruiyuan Wang	Dr. Fengcheng Wang
9	DE (Germany)	<u>Bundesforschungsinstitut für Ernährung und Lebensmittel - Max Rubner Institut (MRI)</u>	1958	Prof. Dr. Norbert U. Haase	Prof. Dr. Meinolf G. Lindhauer Prof. Dr. Peter Köhler Dr. Gerd Huschek

	Country	Member Organisation	Entry year	National Delegate	Deputy National Delegate(s)
10	EE (Estonia)	<u>Estonian Control Center of Plant Production</u>	1992	Dr. Mart Nöges	--
11	FR (France)	<u>Institut National de la Recherche Agronomique Unité de Technologie des Céréales et des Agropolymères (INRA)</u>	1959	Dr. Joel Abecassis	Dr. Monique Axelos
12	HR (Croatia)	<u>Faculty of Food Technology and Biotechnology</u>	1998	Ass. Prof. Marko Jukic	Dr. Daliborka Koceva Komlenic
13	IE (Ireland)	<u>Megazyme International Ireland Limited</u>	2008	Dr. Barry McCleary	--
14	IT (Italy)	<u>Agricultural Res. Council – Res. Center on Food and Nutrition (CREA AN, formerly INRAN)</u>	1960	Dr. Marina Carcea	Dr. Ambrogina Pagani Dr. Rita Acquistucci Prof. Emanuele Marconi
15	JP (Japan)	<u>The Flour Millers Association of Japan</u>	1966	Dir. Koji Ishizuka	Kenichi Sakai
16	LB (Lebanon)	<u>Industrial Research Institute</u>	1999	Dr. Bassam Frenn	Eng. Amine Jbeily
17	LV (Latvia)	<u>Ministry of Agriculture</u>	1996	Iveta Ozolina	--
18	NL (Netherlands)	<u>NBC - Nederlands Bakkerij Centrum</u>	1959	Dr. Flip van Straaten	Drs. Jan Willem van der Kamp Dr. Martijn Noort
19	NZ (New Zealand)	<u>Lincoln University</u>	2013	Dr. Charles Brennan	--
20	RO (Romania)	<u>National Institute of Research &amp; Development for Food Bioresources</u>	2000	Dr. Nastasia Belc	--
21	SD (Sudan)	<u>Sudanese Standard &amp; Metrology Organization (SSMO)</u>	1999	Dr. Awad Sokrab	--
22	TR (Turkey)	<u>Hacettepe University</u>	2002	Prof. Hamit Köksel	Feridun Haboglu Turgay Sanal



	Country	Member Organisation	Entry year	National Delegate	Deputy National Delegate(s)
23	UK (United Kingdom)	<u>HGCA (Home Grown Cereals Authority)</u>	1959	Dr. Dhan Bhandari	Prof. Peter Shewry
24	US (United States)	<u>US Department of Agriculture (USDA) - Agricultural Research Service (ARS) - Center for Grain and Animal Health Research</u>	1958	Dr. Floyd Dowell	Dr. Maureen Olewnik Dr. Dirk Maier Prof. Perry K.W. Ng

## Institutional Membership



### Institutional Membership

ICC Institutional Membership is open to research organisations, industry/trade associations, policy makers, (inter)national consortia working in the food and feed sector, universities, publishers, etc. Institutional

Membership offers additional benefits (compared to Corporate Membership) and voting rights in the ICC General Assembly. A minimum of two Institutional Members in countries with a population up to 10 million, three in countries with a population up to 50 million and four or more in countries with a population above 50 million in a single country may act as a Country Member if they wish. The annual membership fee is € 2,000. –.

Institutional Members 2016				
	Country	Name of Institution	Entry year	Type of business
1	GR (Greece)	<u>ATEITH - Alexander Technological Educational Institute of Thessaloniki</u>	2015	Education public institute, specialized on applied sciences
2	IN (India)	<u>International Crops Research Institute for the Semi-Arid Tropics</u>	2012	Grain and grain products safety and quality control on the federal level
3	RU (Russia)	<u>Federal State Institution "Federal Centre of Safety and Quality Assurance for Grain and Grain products"</u>	2010	Grain and grain products safety and quality control on the federal level
4	TW (Chinese Taipei)	<u>Taiwan Flour Mill Association (TFMA)</u>	2010	Research, Analysis, Training

## Corporate Membership





### Corporate Membership

ICC Corporate Membership is open to internationally active companies, enterprises, foundations, cooperatives and organisations promoting the aims of the Association, either by financial or scientific contribution. They

have the right to participate in the General Assembly, submit proposals and make motions. Individually they have no active or passive voting rights with respect to the activities of the Association but all Corporate Members collectively they may elect two representatives to vote on their behalf in the General Assembly. A Corporate Member may decide to become an Institutional Member at any time. The annual fee for Corporate Membership is € 1,000. –.

Corporate Members 2016				
	Country	Organisation	Entry year	Type of business
1	AT (Austria)	<u>Diamant GmbH &amp; Co KG</u>	1996	Raw Materials / Bread Improvers
2	CH (Switzerland)	<u>Bühler AG</u>	2012	Grain Processing Technology
3	CN (China)	<u>Academy of State Administration of Grain</u>	2014	Non-Profitable Research On Grain Science
4	CN (China)	<u>Beijing Academy of Food Sciences (BAFS)</u>	2001	Scientific Research, Testing and Publishing
5	CN (China)	<u>Henan University of Technology</u>	2005	
6	CN (China)	<u>Wuhan Polytechnic University (WHPU)</u>	2005	
7	CN (China)	<u>Wilmar (Shanghai) Biotechnology R&amp; Center Co.,Ltd</u>	2014	Agrobusiness and Food Company
8	DE (Germany)	<u>Brabender GmbH &amp; Co KG</u>	1993	Measuring and Test Instruments



Corporate Members 2016				
	Country	Organisation	Entry year	Type of business
9	DE (Germany)	<u>Elementar Analysensysteme GmbH</u>	1999	Development, Manufacturing and Sales of Analytical Instrumentation
10	DE (Germany)	<u>Haubelt Laborgeräte GmbH</u>	2006	Producer of Rheological flour Quality Testing Instruments
11	DE (Germany)	<u>Mühlenchemie GmbH &amp; Co KG</u>	2002	Solutions for Flour Standardisation / Flour Quality Improvement
12	DE (Germany)	<u>R-Biopharm AG</u>	2005	Manufacturer of Test Kits for Food and Feed Analysis and Clinical Diagnostics
13	DE (Germany)	<u>Rietmann GmbH</u>	1992	Supplier for Base Products and Premixes
14	DE (Germany)	Kastenmüller GmbH	2016 	Planning of Mills and Plants in the Food and Non-Food Sector
15	DK (Denmark)	<u>Foss A/S</u>	2000	Analytical Instruments
16	DK (Denmark)	<u>Valsemollen A/S</u>	2012	Milling Company
17	FI (Finland)	<u>VTT Technical Research Centre of Finland</u>	2007	Research Organisation
18	FR (France)	<u>BIPEA</u>	2008	Proficiency Testing Schemes Organizer
19	FR (France)	<u>Chopin Technologies</u>	1992	Manufacturing and Sales of Quality Control Instrumentation for Grain and Flour
20	IE (Ireland)	<u>Megazyme International Ireland Limited</u>	1994	Developing and Supplying Diagnostic Test Kits and Reagents for the Cereals, Food, Feed and Fermentation Industries
21	LB (Lebanon)	RBML Food Microbiology Labs	2016 	Lab for Food and Water Microbiology
22	LT (Lithuania)	<u>Kaunas University of Technology</u>	2010	

Corporate Members 2016				
	Country	Organisation	Entry year	Type of business
23	NL (Netherlands)	<u>TLR International Laboratories</u>	2013	Laboratory Performing Analyses on Grains, Oilseed, Food and Feed
24	NL (Netherlands)	<u>U.S. Wheat Associates</u>	1993	Market Development
25	RU (Russia)	<u>International Industrial Academy</u>	2015	
26	RU (Russia)	<u>JSC "Ortus Malgrain"</u>	2015	Joint Stock Company
27	RU (Russia)	<u>The Russian Union of Flour Mills and Cereal Plants</u>	2015	
28	RU (Russia)	<u>VNIIZ - Russian Scientific Research Institute for Grain and Grain products</u>	2012	
29	SE (Sweden)	<u>Perten Instruments Sweden</u>	1992	Laboratory Equipment for Quality Control of Grain and Flour
30	TR (Turkey)	<u>Bastak Food Machine Medical</u>	2013	Producer of Flour Additives and Quality Control Apparatus
31	TR (Turkey)	<u>Yücebaş Machine and Analytical Instruments</u>	2010	Production of Instruments for Testing Grain and Flour Quality
32	UK (United Kingdom)	<u>Stable Micro Systems Ltd.</u>	1996	Developing and Manufacturing of Texture Analysis Systems

### Individual Membership – NEW!



### Individual Membership

In 2016 the ICC General Assembly voted in favour of the introduction of a new membership category, open for any natural person wishing to promote and contribute to the aims and activities of the Association.

If you are not a member yet, please note that you can support the work of ICC by signing up at any time at [www.icc.or.at](http://www.icc.or.at).

## ICC Standard Methods



A major objective which lied at the heart of ICC from its very beginning was to develop internationally-accepted standard methods to facilitate the trade of grains and grain-based food products within and between countries. This continues to be one of the fundamental aims of the Association.

Since its establishment, **over 80 standard methods** have been published by ICC, including several rapid methods. Many older methods have been reviewed and released in light of later developments. In many cases, the establishment of agreed standard methods came from the work of many individual working and study groups involving experts willing to cooperate under the direction of a chair. Their work mainly involved the study, development and evaluation of cereal testing methods and advising on particular problems related to cereal science and technology. These activities are overseen by the Technical Director and Technical Co-Directors.

In 2016 **new ICC Standards** have been voted and approved by the General Assembly:

ICC Standard No. 182: RIDASCREEN Gliadin – Enzyme immunoassay for the quantitative analysis of gliadins and corresponding prolamines.

ICC Standard No. 183: RIDASCREEN Gliadin competitive – Enzyme immunoassay for the quantitative determination of peptide fragments of gliadins and corresponding prolamines.

### **New ICC Draft Standards:**

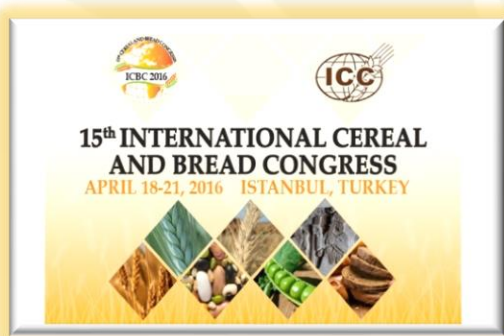
ICC Draft Standard No. 184: Determination of the mixing quality of wheat flour doughs by high-speed mixing using the doughLAB.



## ■ ICC Conferences and Meetings

### ICC Conferences

#### 15<sup>th</sup> ICC Cereal and Bread Congress, 17-21 April 2016, Istanbul, Turkey



The **15<sup>th</sup> International Cereal and Bread Congress (ICBC)** was organized by ICC - and ICC's Member Country Organisation in **Turkey**, Hacettepe University, on **18-21 April 2016 in Istanbul**, Turkey. The 15<sup>th</sup> ICBC connected the East and the West in Istanbul, right at the crossroad of different continents and cultures. It was the first

International Cereal and Bread Congress organized in Turkey. The congress was endorsed by the major international research institutions CIMMYT, ICARDA and IRRI.

The 15<sup>th</sup> ICBC attracted a large number of great researchers from various significant institutions despite the recent unfortunate incidents in Turkey and in Europe. We had **440 participants from around 50 countries, addressing researchers, policy makers, regulatory bodies, industries, SMEs, students and professionals**. The event was an excellent opportunity for networking, getting up-to-date information and establishing international collaboration.

Around **150 oral presentations** and more than **200 poster presentations** covered the main scientific topics of the conference as they were:

- Cereals and cereal product quality evaluation/quality management
- Cereal processing technologies
- Bread and other cereal foods
- Nutrition and health
- Food safety and security
- Research on genetics, breeding and agronomy to enhance global cereal production and quality
- Storage and packaging
- Food legumes
- Sugar, chocolate and confectionery products

Plenary session's talks were given by internationally recognized scientists:

- Dr. Hans-Joachim Braun, Cymmit, Mexico – *“100 years of Global Wheat Food Security: From Norman Borlaug to 2050”*
- Prof. Peter Shewry, Rothamsted Research, UK - Fellow of the ICC Academy – *“Challenges for Improving Wheat Grain Quality”*
- Prof. Jan Delcour, KU Leuven, Belgium - Fellow of the ICC Academy *“Our Daily Bread: An Exciting and Socially Relevant Research Object”*

The congress received a lot of support from a number of individuals and institutions. The Organizers of the 15<sup>th</sup> ICBC wish to thank all speakers and poster presenters for their valuable contribution to the Congress. They also wish to thank all sponsors and exhibitors for their highly appreciated support and for helping to make 15<sup>th</sup> ICBC such a successful event! They would also like to thank the scientific, organizing and advisory committees for their contribution and finally yet importantly, the Organizers would like to thank Dr. Kadir Topbaş, the Mayor of Istanbul Metropolitan Municipality, and his team who supported us throughout each and every stage of this organization. It was a great pleasure to host the 15<sup>th</sup> ICBC in Istanbul!

For more information on the 15<sup>th</sup> ICBC, pictures and the presentations, please visit the congress web site at [www.icbc2016.org](http://www.icbc2016.org).

Finally, ICC would like to take the opportunity and announce that the **16<sup>th</sup> International Cereal and Bread Congress** will be co-organized by the **Lincoln University in Jan./Feb. 2020 in Christchurch, New Zealand**.

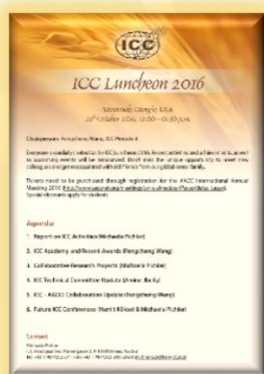
### **ICC General Assembly at the 15<sup>th</sup> ICC Cereal and Bread Congress, 20 April 2016, Istanbul, Turkey**



At the 15<sup>th</sup> ICBC the **ICC General Assembly** took place in which the Secretary General and the Presidents presented all major achievements, cooperations and projects of the Association in the years 2015-16.

Changes in the ICC Statutes and By-Laws, new ICC Standards have been presented, further two Fellowships of the ICC Academy have been awarded (see p.32).

## ICC Luncheon 2016 at the AACCI Annual Meeting, 26 October 2016, Savannah, USA



ICC was happy to welcome many colleagues and friends to the ICC Luncheon 2016 at the AACCI Annual Meeting in Savannah, USA, 26 October 2016 where Fengcheng Wang, and Michaela Pichler presented recent activities and achievements, as well as upcoming projects and events of ICC. It is a unique opportunity to meet new colleagues and get reacquainted with old friends from our global cereal family.

## ICC Supported Conferences and Meetings

### 9<sup>th</sup> International Symposium of Food Science, 30-31 July 2016, Shenyang, China



The 9<sup>th</sup> International Symposium of Food Science (ISFS) was organized by the Beijing Academy of Food Sciences (BAFS, China), Food Publishing Co. (China), the International Association for Cereal Science and Technology (ICC) in collaboration with the College of Food Science (Shenyang Agricultural University) and the Chinese American Food Society (CAFS, USA) in

Shenyang, China, on 30–31 July 2016. There were more than 1200 participants attending this symposium, addressing professors, researchers, industries, regulatory makers and students.

Over 120 experts from USA, Canada, Korea, Germany, Ireland, Singapore, Chinese Taipei and Mainland of China gave presentations at the symposium, which covered all aspects on food science and introduced the latest achievements on fundamental research on food processing:

- Structural Change and Quality Control of Food Compositions during Processing
- Key Technologies of Traditional Food Industrialization
- Nutritional Functions in Food and New Food Materials and Healthy Food Development
- Storage and New Processing Technologies of Fruits and Vegetables

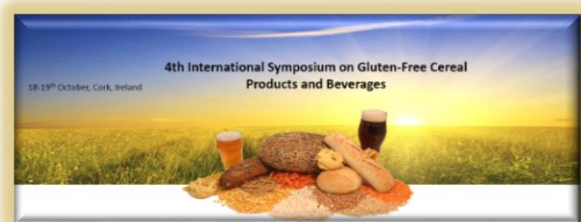
- Marine Food Resources and Development
- Food Quality Control and Safety Inspection Technology

Highly relevant presentations have been given at the symposium. The audience had the unique opportunity to participate in experts' discussions. The 9<sup>th</sup> ISFS promoted the knowledge exchange among researchers of food science.

The conference organizers thanks all sponsors, exhibitors and participants for their highly appreciated support to make the 9<sup>th</sup> ISFS a successful event.

#### **4<sup>th</sup> International Symposium on Gluten-Free Cereal Products, 18-19 October 2016, Cork, Ireland**

Excellent speakers covered in only two days main scientific topics in the area as of:



- Gluten Intolerances and Epidemiology
- Detection of Food Allergens
- Gluten-free market and trends
- Gluten-free Raw Materials and functional ingredients, like hydrocolloids, starched, proteins
- Gluten-free Cereal Products (bread, biscuits, pasta, beer)

Plenary session's talks will be given by internationally recognised scientists:

- Prof. Elke Arendt, University College Cork, Cork, Ireland - Fellow of the ICC Academy
- Prof. Peter Köhler, German Research Centre for Food Chemistry / Leibniz Institute, Germany - Fellow of the ICC Academy
- Prof. Fred Brouns, Maastricht University, The Netherlands - Fellow of the ICC Academy
- Prof. Sven-Erik Jacobsen, University of Copenhagen, Denmark
- Prof. Jan Delcour, KU Leuven, Belgium - Fellow of the ICC Academy



### **30<sup>th</sup> EFFoST International Conference, 28-30 November 2016, Vienna, Austria**



The special session "**Food security and sustainability in the perspective of cereals and grains**" endorsed by

ICC within the EFFoST Conference was successfully held on Wednesday, **30 November**. ICC Secretary General, Michaela Pichler and the ICC Immediate Past President, Dr. Joel Abecassis (INRA, France) opened this session with a talk on challenges and solutions for future food security and sustainability followed by selected presentations from the submitted abstracts.

### **12<sup>th</sup> International Conference "Bakery Production in Russia: Challenges and Market Strategies", 28-30 November 2016, Moscow, Russia**



The conference was held at the premises of the ICC Corporate Member International Industrial Academy and supported by the Ministry of Agriculture of the Russian Federation and a number of industrial associations. The well over 200 participants, participated in an attractive programme of presentations and an impressive exhibition of

bakery products, showing many examples of the Russian bread culture.

ICC's Academy chair, Jan Willem van der Kamp, gave a presentation on "Bakery products and health benefits - new insights, opportunities for business and perspectives for whole grain products" that resulted in lively discussions and raised the interest in attending the 6<sup>th</sup> International Whole Grain Summit, Vienna, 13-15 November 2017.

### **4<sup>th</sup> International ISEKI\_Food Conference "ISEKI\_Food 2016", 6-8 July 2016, Vienna, Austria**

The ISEKI-Food Association (European Association for Integrating Food Science and Engineering Knowledge Into the Food Chain) and the University of Natural Resources and Life Sciences Vienna (BOKU) organised the 4th



4<sup>th</sup> International ISEKI\_Food Conference  
**ISEKI\_Food 2016**  
6 - 8 July 2016, Vienna, Austria  
Bridging Training and Research for Industry and the Wider Community

International ISEKI\_Food Conference to contribute to the creation of an "open" international forum for researchers, education scientists, technologists and industry representatives as well as food consumers, to promote constructive dialogue and collaboration on topics relevant to Food Science and Technology, Industry and Education and to present and disseminate the results of the activities developed by the ISEKI\_Food network projects.

## Outlook 2017

### 6<sup>th</sup> International Whole Grain Summit, 13-15 November 2017, Vienna, Austria



The 6<sup>th</sup> WGS17, organized by **Healthgrain Forum** and the **International Association for Cereal Science and Technology** in cooperation with the **University of Minnesota**, is the only international conference on **whole grains**, and will use this global reach to establish networks and define **action plans that will stimulate increased**

**consumption of whole grains and other healthy cereal ingredients.** The Summit will include discussions and updates on the latest in science/technology, nutrition and health, business, marketing and regulatory perspectives leading to a concrete action plan for increasing whole grain consumption. For more details, please visit <https://www.wholegrainsummit.com/>.

### Further ICC related conferences and meetings:

Date	Title	City	Country
20 – 21 Apr.2017	Global Miller's Symposium	Hamburg	DE (Germany)
21 – 24 May 2017	APGC - 1 <sup>st</sup> ICC Asia-Pacific Grain Conference	Xiamen	CN (China)
20 – 22 Sept. 2017	Australasian Grain Science Conference	Christchurch	NZ (New Zealand)
11 Oct. 2017	ICC Luncheon 2017	San Diego	US (United States)
25 – 27 Oct. 2017	9th International and 11th Croatian Congress of Cereal Technologists "Flour-Bread 17"	Opatija	HR (Croatia)
13 – 15 Nov. 2017	WGS 2017 - 6 <sup>th</sup> International Whole Grain Summit	Vienna	AT (Austria)
11 – 14 Mar. 2018	LACC4 - 4th Latin America Cereals Conference	Mexico City	MX (Mexico)
25 -28 Apr. 2018	World Mill Tech 2018 Expo	Istanbul	TR (Turkey)
4 – 6 June 2018	7th International Dietary Fibre Conference 2018	Rotterdam	NL (Netherlands)

## ■ ICC Project Activities and Collaborations

### International Projects

#### MyToolBox (2016-2020) – *The smart way to tackle mycotoxins* – New EU project Kick-Off: ICC involved as a Project Partner



Scientists leverage smart technology to support farmers and improve food safety: globally every year there are several billion Euro losses to cereals and other crops through fungal infection, which also causes harm to human health from toxins (mycotoxins) produced by these moulds. In a new initiative that is being funded by the **European Union's Horizon 2020 Programme**, a group of scientists, engineers and IT specialists have teamed up **to provide knowledge transfer to farmers and other decision makers in the food and feed chains**. Using **smart technology** available on phones and tablets, decision-making tools will be made available to the agricultural and food communities to guide them in taking the most cost-effective **actions to minimise fungal infection and mycotoxin formation**. Advice will be given in real-time and customised to the individual situation taking into account numerous factors including climatic conditions as a means of forecasting potential fungal infection.

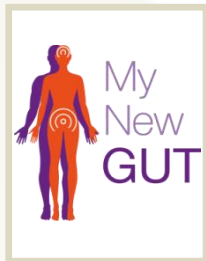
**ICC**, as **responsible for the dissemination** of information on the project and its results to a wide audience, successfully launched at the end of June 2016 the new **project's website** <http://www.mytoolbox.eu> as well as the project's **social media channel on Twitter**. All relevant data as well as results will be published on the website during the duration of the project.

The **co-ordinator** of the project, **Prof. Rudolf Krska** from the University of Natural Resources and Life Sciences (**BOKU**) in Vienna, who launched the project on **8 March 2016** said *"This exciting MyToolBox Project has the potential to save tens of millions of Euros per annum in reduced crop losses, as well as achieve reductions in dietary exposure to mycotoxins, which is immeasurable in terms of benefits to human health"*.

Of the **23 partners from 11 countries including China**, there is a strong industry presence reflecting the practical significance of this project. **Dr. Michele Suman from Barilla**, a world leading manufacturer of pasta in Parma (Italy) and a member of the MyToolBox team said *"This project could make a real difference*

*to the cereal processing industry with the potential to reduce losses of wheat and maize during milling and produced safer products with lower levels of mycotoxins reducing human exposure".*

**MyNewGut – EU-funded project on “Microbiome influence on energy balance and brain development-function put into action to tackle diet-related diseases and behaviour” launched in 2014**



The € 9m EU-funded project MyNewGut will research how the human gut microbiome influences obesity, behavioural- and lifestyle-related disorders and vice versa. It also aims to identify specific dietary strategies to improve the long-term health of the public.

The general objectives of the project are to:

- Expand knowledge of the contribution of the human microbiome to nutrient metabolism and energy balance.
- Identify microbiome-related features that contribute to or predict obesity and associated disorders.
- Understand how the gut microbiome, under the influence of environmental factors, plays a role in the brain, metabolic and immune system development in early life.
- Provide proof-of-concepts of the disease risk and reduction potential of dietary interventions with new food products and (or) ingredients that target the gut microbiome, in humans.

In 2016 The MyNewGut consortium has worked on the scientific, technological, dissemination and managerial activities as scheduled for the 30 months reporting period for most of the tasks.

ICC supports the dissemination of project knowledge. To read more, please visit the ICC Webpage or go directly to the project website <http://www.mynewgut.eu>.

**iFAAM (2013-2017) - Integrated Approaches to Food Allergen and Allergy Risk Management (MoniQA is partner, ICC is Third Party)**



The world's biggest study of allergies - spearheaded by the University of Manchester – kicked-off on 19 March 2013. The €9 million



project builds on an earlier research study and involves the world's leading experts in the UK, Europe, Australia and US.

Up to 20 million European citizens suffer from food allergy today. However, management of both food allergy by patients and health practitioners and allergens, by industry, is thwarted by lack of evidence to either prevent food allergy from developing or protect adequately those who are already allergic. The European Commission-sponsored research, known as the Integrated Approaches to Food Allergen and Allergy Risk Management (iFAAM) will produce a standardised management process for companies involved in food manufacturing. It will also develop tools designed to enforce these regulations and produce evidence-based knowledge to inform new health advice on nutrition for pregnant women, babies and allergy sufferers. ICC contributes to the project as a third party, supporting the MoniQA Association, which leads a work-package in this project dealing with translating iFAAM developed tools and food allergen management approaches to practice.

### The WoW Project (2017-2019) – “Well on Wheat”



An international project addressing the effects of wheat-based food products on gastrointestinal function and metabolism. The 1<sup>st</sup> objective of the project is to obtain in depth analytical data of the composition of whole meal obtained from bread wheat, spelt wheat and emmer wheat as well as the dough and the finally baked bread made thereof. The

2<sup>nd</sup> objective is to study the effects of two alternative fermentation processes: yeast and sourdough fermentation, on compositional changes. These objectives will give insight in the overall effects of food processing on the (bio)chemical composition as defined by proteomics, carbohydrate analysis (carbohydrates, fibres, FODMAPs), phytate, selected micronutrients and pesticide residues. The 3<sup>rd</sup> objective is to study the effects of consuming the various bread types (according to grain type and fermentation type) in individuals with irritable bowel syndrome (IBS), which will be monitored for effects on intestinal function and physiology, including e.g. faecal microbiota/metabolism, and using markers for gut permeability and inflammation as well as measuring subjective perceptions. The project will generate new scientific insights that will be translated into recommendations to food industries and to health professionals and patient/consumer organisations. This project will be supported by ICC and Health Grain Forum and funded by private and public organisations.



## ICC Cooperations

### HEALTHGRAIN Forum established in May 2010



The HEALTHGRAIN Forum was established as an international association and a follow-up to the EU 6<sup>th</sup> Framework Programme Integrated Project HEALTHGRAIN - "Exploiting Bioactivity of European Cereal Grains for Improved Nutrition and Health Benefits". Its mission is to promote science-based concepts fully unlocking the health promoting potential in the entire grain food production chain to obtain healthy, convenient and appealing foods. ICC provides support and expertise to the association, as well as the financial administration. In April 2016 a *Memorandum of Understanding* between the two associations has been signed, to define the cooperation.

### FOODSECURITY.AT Forum established in May 2015



Foodsecurity.at is a network composed of four Austrian institutions working in the whole field of Food Security. ICC facilitates the international integration of the planned activities of the network. ICC recognises the importance of food security being one of the great challenges of the 21st century. Together with the network partners of foodsecurity.at, ICC contributes in making some key topics a subject of discussion. And in 2016 in the event held in German language on 13 October „Mahlzeit - Gibt's auch morgen noch genug zu essen?“, some issues were addressed such as conditions for food security of the future - on a global and regional level; and food losses from the field to the plate.

### ISEKI-Food Association established in October 2011



The ISEKI-Food Association started its activities as a network after the ISEKI\_FOOD\_4 project in October 2011. The project was aimed to develop a framework of stakeholders to lead innovation in food studies education & training tailored to the needs of the industry, promote innovation in the FS&T academic sector and support internationalization of EU Food studies. ICC is involved by hosting and managing the website and supporting different events.

## AACCI Collaboration



Together AACCI and ICC have elaborated in 2015 the common vision to be the leading global authorities in cereal grain biosciences and commonly developed in 2016 further details.

The mission of the future cooperation will be to create together a premier global cereal grain bioscience and technology platform committed to exchanging knowledge, advancing innovation, facilitating research, providing standard methods and promoting collaboration, in order to improve the quality, safety, and security of the grain-based products supply chain world-wide.

## Publications

### ICC Newsletter & News Alerts



ICC is periodically sending out Newsletters per e-mail. In 2016 ICC renewed the layout and sent around 8 Newsletters and 11 News Alerts to a community of more than 8.500 subscribers worldwide.

### ICC Journal - QAS (Quality Assurance and Safety of Crops and Foods)

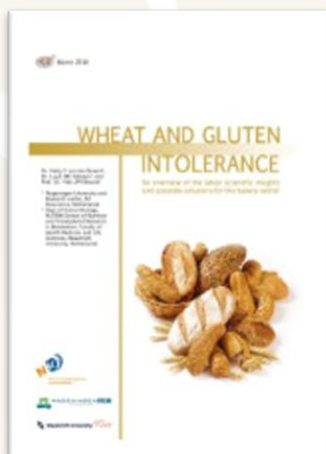


The focus on grain food quality and safety has resulted in collaboration with Wageningen Publishing for editing a specialized journal targeting those interested in this topic. The official journal of ICC, the Quality Assurance and Safety of Crops & Foods (QAS) was in 2016 in its 8<sup>th</sup> year of publication.

It is an international peer-reviewed journal publishing scientific primary research papers and review papers in the areas of food safety and quality, food security and the technology of crops, cereals and grains. The journal focuses on the research into and development of new analytical tools, the improvement of existing analytical tools, food quality and safety and on the technologies associated with harvesting, storing, processing and manufacture. In 2016 four issues have been published.

## White Paper on Wheat and Gluten Intolerance

With the White Paper, the current state of scientific knowledge on human disorders related to gluten and wheat is presented, with reference to other grains such as spelt, barley, rye, and oats. Backgrounds are described of coeliac disease (gluten intolerance), wheat allergies and any kind of wheat sensitivity, followed by strategies that are suggested to reduce disease prevalence and to mitigate symptoms. Research is proposed that focuses on the possibilities to modify raw materials and process technologies for the development of products that may give rise to reduced intolerance and sensitivity reactions to wheat proteins and related components. These strategies can be implemented at short, medium or long term and are of interest to the food sector, in particular the bakery, pasta and breakfast cereal segments.



## ICC Regulatory Scientific Updates



The Scientific & Regulatory Updates, written by David Richardson, supported by legislative documents, appear about 10 times per year and provide detailed information about legislative changes in the field of nutrition: in the Standing Committee on the Food Chain and Animal Health which regulate health and nutrition claims in the EU, newly published EFSA scientific opinions, European Commission guidance documents, recommendations, and proposals for legislative changes, Codex Committees, regulatory changes at the level of the FAO and WHO, as well as nutrition reports and publications. This update is free for ICC Country Members but can be also issued by the general public. In 2016 12 updates have been published.

## ICC Online Store – new publications



White Paper - Wheat and Gluten Intolerance: 03/2016

Standard-Methoden für Getreide, Mehl und Brot (AGF) (in German language)

For a full overview of publications, check our ICC Online Store:



<https://www.icc-services.at/store>

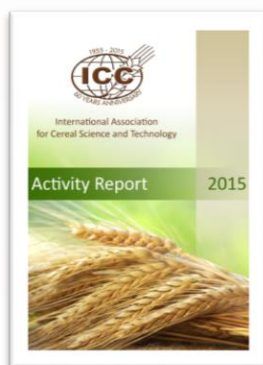
## ICC Promotional material

### ICC NEW Brochure



In 2016 ICC brought out a new general information brochure which can be downloaded freely under [www.icc.or.at/general information](http://www.icc.or.at/general_information)

### ICC Activity Report



ICC presents its activities to members and stakeholders in its Annual Report which has been recently updated in a new format.



## ICC Medals and Awards



### New ICC Academy Fellows 2016

**Dr. Matthew Morell, IRRI – International Rice Research Institute, Philippines**

Dr. Morell is Director General and Chief Executive Officer (CEO) of IRRI. Prior to his senior management roles at IRRI, Dr. Morell was theme leader for 17 years at the Commonwealth Scientific and Industrial Research Organisation (CSIRO).



**Prof. Dr. Elke Arendt, University College Cork, Ireland**

Prof. Dr. Elke Arendt is a senior lecturer in the School of Food and Nutritional Sciences, University College Cork since 1993. She lectures and carries out research in the area cereals, malting and brewing science specific focussing on gluten free foods and beverages, starter cultures, functional beverages, rheology and food structure.

### New ICC Harald Perten Prize Awardee 2016



Harald Perten was for a long time very committed to the ICC and its work and received international recognition for his achievements. Later on he established the Harald Perten Foundation in Zurich (Switzerland) in 1989, which supports the advancement of cereal science worldwide and provides the financial basis for the Harald Perten Prize and additional financial support for the ICC. The Harald Perten Prize is rewarded to natural persons for outstanding achievements in science, research, teaching or transmission of knowledge, which serve cereal sciences and technology. It is primarily recognizing practical applications in the areas of starch, gluten and enzymes. It is presented every second year, even years, in connection with ICC Congresses.

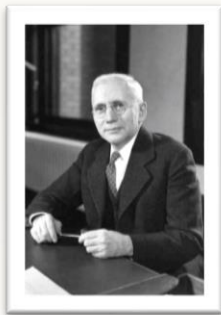


**Prof. Hamit Köksel, Hacettepe University, Turkey**

Prof. Köksel is Leader of the Cereal Research Group at Hacettepe University, Food Engineering Department since 1990. He had an active role in various national and international projects.

Prof. Köksel is one of the Associate Editors of the ICC Journal *QAS – Quality Assurance and Safety of Crops and Foods*.

**New ICC Clyde H. Bailey Medal Awardee 2016**



In 1969 the ICC decided to create an award for outstanding achievements in the service of cereal science and technology, which was at the time to commemorate Dr. Clyde H. Bailey (ICC Honorary President 1958-1968), who had died the year before.

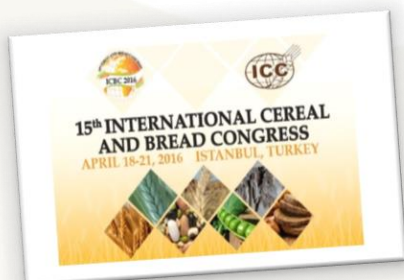


**Prof. Dr. Peter Shewry, Rothamsted Research, UK**

Peter Shewry is currently Distinguished Research Fellow at Rothamsted Research and Professor of Plants and Health at the University of Reading.

He leads a research programme on the development, structures and composition of wheat grain focusing on improving the quality of wheat for human health, notably the content and composition of dietary fibre and phenolic acids, and for milling and bread making including the deposition, composition and properties of grain proteins and lipids.

## Highlights of 2016



### January

**New Editorial Board for QAS**

### February

**ICC Governing Committee sets up the ICC Milestones and Activities for 2016**

### March

- **MyToolBox – New EU Project Kick Off**, 8-9 March 2016, Tulln, Austria
- **White Paper "Wheat and Gluten Intolerance"**

### April

- **15<sup>th</sup> ICC Cereal and Bread Congress**, 17-21 April 2016, Istanbul, Turkey
- **ICC General Assembly**, 20 April 2016, Istanbul, Turkey
- **New ICC Technical Director elected: Eng. Amine Jbeily**
- **Awards announced at the ICBC**
- **New Edition of the ICC Activity Report 2016 and Newsletter**

### May

**ICC Homepage: strongest visitors' month of 2016**

### June

- **MyToolBox - ICC as Project's Dissemination Responsible launched the Project's website**
- **Revised Statutes and By-Laws**



### July

**9<sup>th</sup> International Symposium of Food Science**, 30-31 July 2016, Shenyang, China

### August

**New ICC Individual Membership introduced!**

### September

**20<sup>th</sup> work anniversary of Sabine Gratzner**, 5 September 2016, Vienna, ICC HQ

### October

- **4<sup>th</sup> International Symposium on Gluten-Free Cereal Products and Beverages**, 18-19 October 2016, Cork, Ireland
- **ICC Luncheon 2016 at the AACCI Annual Meeting**, 23-26 October 2016, Savannah, USA
- **Foodsecurity.at event**, 13 October, Vienna, Austria

### November

- **Healthgrain Forum Autumn Meeting**, 15-16 November 2016, Napoli, IT
- **ICC Special Session at the 30<sup>th</sup> EFFoST International Conference**
- **Dr. Stefan Wagener elected new ICC President Elect 2017-2018**

### December

**ICC on Facebook!**



## ■ What does ICC mean to its members?

**The following comments come from the membership of the ICC as they reflected on the service to the cereals community worldwide:**

*“To sustain future human population, more food will have to be produced over the next 50 years than the past 10,000 years combined” ... Cereals and cereal products being the base of healthy nutrition, puts tremendous pressure and responsibilities on organizations worldwide not only to produce more, but also to improve on quality and safety.*

*ICC, being an internationally recognized key player, will continue to fulfil the role of an information beacon for cereal scientist and technologist. For me it is both an honour and a privilege to be able to technically contribute to ICC’s activities that will definitely help researchers, food authorities and decision makers to produce and monitor the quality and safety of our “Bread” from “Farm to Fork” such as developing internationally accepted standard methods for grains and grain based products.”*

Eng. A. JBEILY, Lebanon (2016)

*“Internationally, the global community will be challenged to find answers to some of the most pressing questions related to food security, impact of climate change on grains and grain production, future grain quality and research needs, and overall consumer demands for safer and healthier foods. The ICC has a solid and effective organizational structure and experts to address these topics. Being part of ICC, we can engage with international partners and get more value and stronger collaboration for these issues that will be with us for the decades to come.”*

Dr. Stefan WAGENER, Canada (2016)

*“In ICC I am uniquely positioned to contribute to the advancement of cereal science and technology and to the bigger issues around the world. Issues to which as members, if we work together, we can make a difference and help build a better world for all. In ICC I have access and better connection to the best cereal experts around the world who are among the members of ICC. Furthermore, involvement at ICC events strengthens my global reach and builds long-lasting relationships of trust and respect.”*

Dr. Hamit KÖKSEL, Turkey (2016)





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for Cereal Science and Technology**

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## ICC Officials & Headquarters in Vienna/AT







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ISSN 1757-837X

# Quality Assurance and Safety of crops & foods

edited by: **Stanley Cauvain**

'Quality Assurance and Safety of Crops & Foods' is an international peer-reviewed journal publishing research and review papers associated with the quality and safety of crops.

For subscription and submission information, go to  
[www.wageningenacademic.com/qas](http://www.wageningenacademic.com/qas)



**MoniQA**



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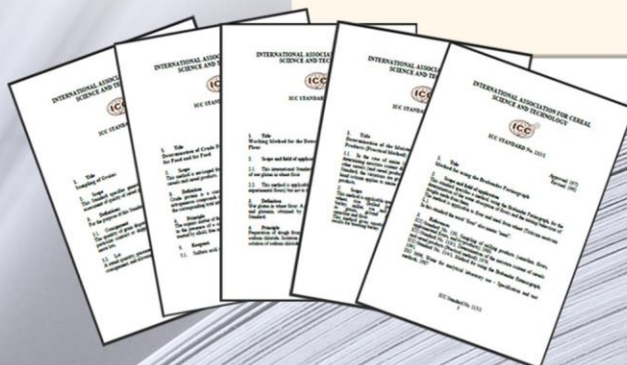
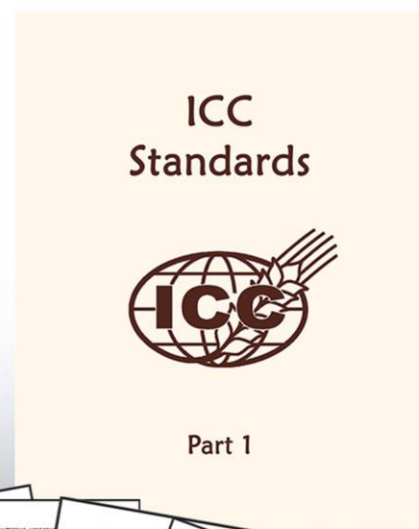


# STANDARDS

For over 60 years ICC has validated and published analytical standard methods applied in safety and quality assessment of cereals and crops, cereal based products, foods and feeds. ICC Standard Methods serve international trade, national and international legislation, industry standards such as ISO and CEN, and as guidelines for food manufacturers and control laboratories. Validated methods are published in the ICC Standards Collection and can be purchased via ICC Services.

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## ICC Standard Methods

All ICC Standard Methods are purchasable electronically (as PDF files) and optionally as printed media.

## Other Publications

Electronically purchasable publications other than ICC Standard Methods. They may optionally be purchased as printed books.

## Printed-Only Publications

Publications that can only be purchased as printed media (book or CD). No electronic versions are available.

## ICC Journal - Quality Assurance and Safety of Crops and Foods (QAS)

The official journal of the ICC in cooperation with MoniQA can be purchased online from Wageningen Academic Publishers.





## ICC Statutes

### Article I - Name, Location and Scope of Activity

1. The Association shall bear the name **ICC – INTERNATIONAL ASSOCIATION FOR CEREAL SCIENCE AND TECHNOLOGY (INTERNATIONALE GESELLSCHAFT FÜR GETREIDEWISSENSCHAFT UND - TECHNOLOGIE)** and shall be located in Vienna, Austria.
2. The Association shall be a non-political, non-religious and non-profit making organisation. It shall only serve idealistic and research purposes in connection with cereal science and technology in accordance with **Art. II** of these statutes.

### Article II - Purposes of the Association

1. The purposes of the Association are to:
  - a) Contribute to the advancement of cereal science and technology in all its aspects;
  - b) Disseminate knowledge in the field of cereal science and technology;
  - c) Conduct, manage, or coordinate research and research projects to support the activities emerging from a);
  - d) Study, develop and evaluate test methods in cereal science and technology and related fields;
  - e) Standardise methods identified under c);
  - f) Relate the results of scientific and technological research to the more effective and sustainable utilisation of cereals;
  - g) Establish internal bodies for purposes of training and research in the field of cereal science and technology and recognition of scientific and technical expertise;
  - h) Act as a respected source of expertise in cereal science and technology in all its aspects, for the benefit of the world community.

### Article III - Measures for the Achievement of the purposes of the Association

1. The Association shall seek to achieve its purposes by:
  - a) Establishing and maintaining contacts among cereal scientists and technologists, concerning scientific and technological studies with a view to taking up, promoting and coordinating research activities;
  - b) Organising programmes of lectures and discussions;
  - c) Cooperation and exchange of views with specialist institutions and organisations;
  - d) Publication of standards for test methods and similar documents in cereal science and technology and related fields;
  - e) Any other means that may serve these purposes which include for example:
    - Participation in and coordination of research projects in the field of cereal technology, food safety, nutrition and renewable energy or all other uses of cereals,
    - Provision of experts, and advising experts,
    - Organizing conferences, congresses, workshops, expert summits and training courses,
    - Publishing of technical literature.

### Article IV - Finance

1. The funds required for the Association shall be raised by means of contributions from its members (membership fees), the amounts of which shall be determined by the General Assembly, as defined in Art. X.
2. Additional funds may be raised by research activities, symposia, conferences, training workshops, publications as well as contributions from foundations and donations from other parties.

### Article V - Membership

1. The Association has as regular members: countries, institutions, corporations and individuals as well as Honorary Members



wishing to play a full and active role in the activities of the Association.

The annual fees for the different categories of membership shall be as determined by the General Assembly and shall be published on the website of the Association ([www.icc.or.at](http://www.icc.or.at)).

- 1.1. **Country Membership** shall be open to all countries that aspire to the aims and objectives of ICC as outlined in this Statutes.

In order for a country to become a Country Member, at least one public or private institution or representative in that country must be willing to play an active role and promote the activities of the Association. Such public or private institutions are called Country Member Organisations.

1.1.1. The number of Country Member Organisations in one and the same country shall not be limited provided that one of them assumes responsibility for arranging and paying the total annual membership fee payable by that country.

1.1.2. Country Members have active voting rights at the General Assembly. The Country Member Organisation assuming responsibility for payment of the annual membership fee shall appoint a National Delegate and a number of Deputy National Delegates in accordance with their membership category.

1.1.3. Membership categories for Country Members shall be linked with the population of the country so that those with

- populations <10 million may appoint one (1) Deputy National Delegate (maximum 2 votes),
- populations of 10-50 million may appoint up to two (2) Deputy National Delegates (maximum 3 votes) and
- populations >50 million may appoint up to three (3) Deputy National Delegates (maximum 4 votes)

and can vote accordingly at the General Assembly.

1.1.4. Discounts are available for Country Members in cognisance of per capita Gross Domestic Product (GDP as defined in the World Bank Classification of countries according to income of their

economies) and Human Development Index (HDI ranking by the United Nations Development Programme).

The discounted Country Member Organisation assuming responsibility for payment of the annual membership fee shall appoint a National Delegate and up to two Deputy National Delegates so that these Country Members may cast up to three votes on those matters to be decided by the General Assembly.

Discounted Country Members may at any time decide to become a full Country Member and shall then assume the voting rights as defined in Art. V 1.1.2

- 1.2. **Institutional Membership** shall be open to scientific and technical institutes and other organisations wishing to promote the aims and activities of the Association. Institutional Members may be situated in member (as defined in Art. V. 1.1) and non-member countries.

Institutional Members shall have a single vote per institution at the General Assembly.

Developing country discounts will not apply for Institutional Members.

- 1.3. **Corporate Membership** shall be open to internationally active companies, enterprises, foundations, cooperatives and organisations promoting the aims of the Association, either by financial or scientific contribution. Corporate Members may be situated in member (as defined in Art. V. 1.1) and non-member countries.

Individually they shall have no active voting rights in the General Assembly but all Corporate Members collectively may elect two (2) representatives to vote on their behalf in the General Assembly.

- 1.4. **Individual Membership** shall be open for any natural person wishing to promote and contribute to the aims and activities of the Association. Individual Members may be situated in member (as defined in Art. V. 1.1) and non-member countries.

Individual Members shall have no active voting rights in the General Assembly but all Individual Members collectively may elect one (1) representative to vote on their behalf in the General Assembly.

- 1.5. **Honorary Members** can be those officials of the Association who have been explicitly nominated as such as a result of special contributions made for the Association.

Honorary Members may be situated in member (as defined in Art. V. 1.1) and non-member countries.

Honorary Members shall have no active voting rights in the General Assembly.

## **Article VI - Admission of members and termination of membership**

### **1. Admission of membership**

Admission to membership shall be decided by the General Assembly upon proposal of the Executive Committee.

### **2. Termination of membership**

2.1. Country, Institution, Corporate and Individual Members may resign from the Association only at the end of each calendar year. For the purposes of the resignation, the member shall notify the Secretary General in writing (letter, fax, email) not later than three months before the date at which the resignation shall take effect. Belated notification shall entail the resignation to take effect only at the end of the calendar year following the date of the intended resignation.

2.2. If an ICC Member fails to pay the membership fee for two consecutive years its membership will be terminated beginning with the third year. The re-instatement of lapsed Members shall require again the approval of the General Assembly.

2.3. Such defaulting members may re-apply for membership but the Executive Committee may require the payments of any previously unpaid fees before again granting membership.

2.4. Any Membership of ICC can be terminated with the approval of the General Assembly if the member is acting in conflict with the principles and aims of the Association.

## **Article VII - Rights of members**

Members in good financial standing shall have the following rights:

### **1. Country Members** shall have the right to:

- a) vote at the General Assembly according to their membership category as specified in Art. V and X,
- b) nominate an individual from that country for the position of President,
- c) nominate an individual from that country for the Executive Committee,

d) participate in defining the policies and programmes of the Association through its representative bodies according to the working rules laid down in these Statutes,

e) become a member of a Working Group,

f) lead a Working Group,

g) be appointed as Technical Committee Member,

h) be elected as Technical Director,

i) use the ICC Membership logo.

### **2. Institutional Members** shall have the right to:

a) vote at the General Assembly as specified in Art. V and X,

b) nominate collectively two (2) individuals from that membership category for the Executive Committee,

c) become a member of a Working Group,

d) lead a Working Group,

e) be appointed as Technical Committee Member,

f) be elected as Technical Director,

g) use the ICC Membership logo.

### **3. Corporate Members** shall have the right to:

a) if so elected collectively by the Corporate Members, represent the Corporate Members and vote at the General Assembly,

b) nominate collectively two (2) representatives from that membership category for the Executive Committee,

c) become a member of a Working Group,

d) lead a Working Group,

e) be appointed as Technical Committee Advisory (non-voting) Member,

f) use the ICC Membership logo.

### **4. Individual Members** shall have the right to:

a) if so elected collectively by the Individual Members, represent the Individual Members and vote at the General Assembly,

b) nominate collectively one (1) representative from that membership category for the Executive Committee,

c) become a member of a Working Group,

- d) be appointed as Technical Committee Advisory (non-voting) Member.
  - e) use the ICC Membership logo.
5. **Honorary Members** shall have the right to:
- a) use the awarded honorary ICC title
  - b) nominate one (1) individual from that membership category for the Executive Committee,
  - c) become a member of a Working Group,
  - d) be appointed as Technical Committee Member,
6. Further information on the rights and benefits of membership may be obtained from the Association website ([www.icc.or.at](http://www.icc.or.at)) or from written communication of the Secretary General.
7. No grants or other financial benefits shall be made available to members from the Association funds.

#### **Article VIII - Duties of members**

1. It shall be a duty of members to promote the activities of the Association to the best of their ability, to observe the statutes, by-laws and decisions of the General Assembly and Executive Committee and to pay their membership fees in good time.

#### **Article IX - Representative bodies of the Association**

1. The representative bodies of the Association are:
  - a) General Assembly (as defined in Art. X)
  - b) Executive Committee (as defined in Art. XI)
  - c) Governing Committee (as defined in Art. XII)
  - d) Technical Committee (as defined in Art. XIII)
  - e) Arbitration Committee (as defined in Art. XIV)
2. The relationship between the representative bodies shall be as defined in the By-Laws of the Association.

#### **Article X - General Assembly**

1. The General Assembly shall be composed of the

- a) National Delegates and Deputy National Delegates,
  - b) Institutional Members
  - c) Corporate Member Representatives
  - d) Individual Member Representative
- and chaired by the President, President Elect or Past President.
2. Each individual eligible to vote shall have only one vote to cast at the General Assembly.
  3. The ordinary General Assembly shall meet every two years and its tasks shall be to make decisions on the following issues:
    - a) admission and termination of ICC members (as defined in Art. V and Art. VI),
    - b) appointment of the President Elect and President
    - c) election of members to the Executive Committee (see Art. XI),
    - d) election of the Auditors of the Association,
    - e) approval of the statement of annual accounts prepared and submitted by the Executive Committee,
    - f) determination of the membership fees and approval of relevant budgets,
    - g) approval of the progress report of the Technical Committee,
    - h) adoption of draft standards, standards and other documents,
    - i) amendment of the Statutes,
    - j) decisions upon any other items placed upon the agenda,
    - k) winding up the Association.
  4. A delegate or representative who cannot attend a meeting of the General Assembly may arrange to be represented by a proxy who shall have the right to vote on his/her behalf.
  5. For routine matters the General Assembly shall have a quorum if collectively at least one third of the delegates entitled to vote are present, or are represented by deputies, or have communicated their voting preference to the President in advance of the meeting. For major issues such as changing the Statutes or winding up the Association two-thirds of those entitled to vote are required to be present or represented. All decisions shall require a simple majority of the members entitled to vote. In the case of a tie the President shall have the casting vote.

6. The decisions of the General Assembly may be made in written / electronic form, if any delegate entitled to vote has been granted the possibility to vote. Decisions will require the same quorum and voting majorities as when the General Assembly meets in person.
7. Extraordinary General Assemblies may be convened
  - a) by the decision of the President and/or
  - b) at the written request of at least one tenth of the members eligible to vote. In this case the meeting shall be convened on a date within three months after receipt of the request.
8. Winding up of the Association
  - 8.1. The voluntary winding-up of the Association shall be decided upon by an Extraordinary General Assembly specifically convened for this purpose. The decision shall be made by a two-thirds majority of all valid votes cast.
  - 8.2. The Extraordinary General Assembly shall decide upon the disposal of the assets of the Association; they shall be made available for a charitable cause (especially in the area of research) and the Auditors shall be entrusted with the execution of this decision.
- d) appoint the Technical Director and Technical Co-Director,
- e) set up Working Groups, appoint their chairs and discuss reports on the progress of work in these groups,
- f) make proposals to the General Assembly for adoption of draft standards, standards and similar documents of the Association,
- g) decide on recommendations for awards of Honorary Presidency, Fellowship of the ICC Academy and the conferring of ICC medals through the ICC Academy.
- h) handle all matters of the Association not expressly reserved for the General Assembly.
3. The Executive Committee shall have a quorum if at least one third of its members are present and shall take decisions by a simple majority. In the case of a tie the President shall have a casting vote.
4. The decisions of the Executive Committee may be made in written or electronic form if any member entitled to vote has been granted the possibility to vote.
5. The Executive Committee may set up Sub-Committees, Working and Study Groups to assist in the exercise of its function.

#### **Article XI - Executive Committee**

1. The Executive Committee shall consist of up to twenty-four (24) members and shall include:
  - a) the President,
  - b) the President Elect,
  - c) the Past President,
  - d) the Technical Director and
  - e) the members as elected by the General Assembly, including Institutional, Corporate, Individual and Honorary Member Representatives.

The members are elected for an up to six year term with the possibility for re-election.
2. The tasks of the Executive Committee shall be to:
  - a) propose the admission of ICC Members to the General Assembly,
  - b) appoint the Secretary General and Deputy Secretary General,
  - c) exercise financial supervision through the Governing Committee,

#### **Article XII - Governing Committee**

1. The Governing Committee shall comprise
  - a) the Past President (as Chair),
  - b) the President,
  - c) the President Elect,
  - d) the Honorary Presidents and
  - e) up to 3 invited persons.
2. The Governing Committee shall advise the Executive Committee on the following matters:
  - a) the financial position within the Association,
  - b) the appointment of staff by the Association,
  - c) staff employments conditions within the Association,
  - d) resources and operational requirements for the offices of the Association,
  - e) representation by the Association at meetings and conferences,
  - f) any ICC Honorary Membership,

- g) contract arrangements relevant to the functions of the Association.

#### **Article XIII - Technical Committee**

1. The Technical Committee shall consist of
  - a) the Technical Director or in his/her absence the President Elect,
  - b) the Technical Co-Director,
  - c) the Chairs of the Working Groups and
  - d) any elected Technical Committee (Advisory) Member.
2. The Technical Committee shall have the following task:
  - a) To review the progress of the work of the Working Groups,
  - b) To present to the Executive Committee proposals for standard methods and new Working Groups.

#### **Article XIV - Arbitration Committee**

1. The final decision in all disputes arising within the Association shall rest with the Arbitration Committee.
2. In the event of disputes an Arbitration Committee shall be formed by each party to a dispute electing two members to act as Arbitrators who in turn, shall elect another member to act as Chair of the Arbitration Committee.
3. If no agreement can be reached on the election of the Chair, he/she shall be elected by the Executive Committee or, if the latter is itself a party to the dispute, by the General Assembly.
4. The Arbitration Committee shall have discretionary powers and shall make their decisions to the best of their knowledge and ability. The Arbitration Committee shall decide by a simple majority. In the case of a tie the Chair shall have the casting vote.
5. No appeal against the decision of the Arbitration Committee is possible.

#### **Article XV - Officers of the Association**

1. The officers of the Association are:
  - a) the President (as defined in Art. XVI),
  - b) the President Elect (as defined in Art. XVII),
  - c) the Past President (as defined in Art. XVI),

- d) the Secretary General and the Deputy Secretary General (as defined in Art. XVII),
- e) the Technical Director and Technical Co-Director (as defined in Art. XVIII),
- f) the Auditors (as defined in Art. XIX).

#### **Article XVI - President Elect, President and Past President**

1. The President shall chair the meetings of the General Assembly and Executive Committee and shall execute their decisions.
2. The normal terms of the Presidency shall be as follows:
  - two years President Elect
  - two years President
  - two years Past President
3. In exceptional circumstances candidates may be proposed for the presidency for periods of less than two years by the current President and Executive Committee for approval by the General Assembly.
4. The President shall represent the Association with official bodies and other relevant committees.
5. Together with the Secretary General, the President of the Association shall confirm decisions and sign such documents as commit the Association in any way.
6. For administrative issues with the Austrian Association Authority the Secretary General has the power of representation.
7. The President Elect and the Past President shall assist the President in the performance of his/her duties and shall act in his/her place if the President is unable to fulfil his/her duties.
8. If the Technical Director is unable to perform, his/her duties the President Elect shall take over his/her responsibilities until another Technical Director may be appointed.
9. The Past President shall assume the responsibility for chairing meetings and supervising actions of the Governing Committee.



#### **Article XVII - Secretary General and Deputy Secretary General**

1. The Secretary General shall be appointed by the Executive Committee for a four-year term with the possibility of re-election.
2. The Secretary General will be appointed the Chief Executive Officer of the Association and will act as liaison officer between the Association and international, regional and national professional organisations, official bodies and members.
3. The Secretary General will represent the Association together with the President Elect, President and Past President in accordance with Art. XVI.
4. The detailed tasks and responsibilities are given in the By-Laws.
5. The Deputy Secretary General shall assist the Secretary General in the performance of his/her duties and shall act in his/her place if the Secretary General is unable to fulfil his/her duties.

#### **Article XVIII - Technical Director**

1. The Technical Director shall act as Chair of the Technical Committee and supervise the

work of the Technical Working Groups. He/she will act as liaison officer between the Executive Committee and the Chairs of the Technical Working Groups.

2. The Technical Director shall be supported by a Technical Co-Director.

#### **Article XIX - Auditors**

1. The General Assembly shall elect two Auditors for a four-year term.
2. They shall supervise the managements of the Association's finances with regard to the observance of the proper rules of accounting and the disposition of the Association's funds in accordance with the statutes, within four months from the date of submission of the annual financial statement (balance sheet) in accordance with Art. 21VerG (Vereinsgesetz - Associations Act).
3. They shall submit an annual audit report to the General Assembly. The accounting (fiscal) year is identical with the calendar year.



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ICC reaches out to Cereal and Food Scientists, Technologists, institutions and interested individuals, companies, and organisations.

Registered in Austria: ZVR 042478046

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