WELCOME TO
THE ICA 2018

“For over a century, the ICA has been the premier global forum where the actuarial world assembles to share research and knowledge. This year in Berlin, 2750 actuaries from over 100 countries, and many more virtually, will be getting closer. As we share, learn and forge a common understanding, we expand our competencies and demonstrate to our stakeholders how we contribute to the well-being of society.”

“After exactly 50 years, German actuaries are once again hosting an ICA, back then in Munich, this year in Berlin. We are delighted to be able to continue the long and successful tradition of the ICA and have prepared a wide and comprehensive congress program for colleagues and peers from around the world as well as opportunities for discussion and personal networking. This year, for the first time, will also see a virtual ICA being held in parallel. To all participants: May the ICA 2018 provide value-added for your professional futures.”

“After a highly motivated project team at the DAV office, the dedication of all volunteers of the organizing committee at all times, creativity and great attention to detail - these are the key ingredients in creating the perfect event for you. We very much hope that this has been achieved.”

“We have planned the congress program with a large team of international and national experts for over 3 years. Over 400 speakers from more than 40 countries means that our expectations have been exceeded. The high quality of the presentations will make the ICA 2018 a fantastic experience for all participants.”

“For the main gathering of the international actuarial community, the IAA and DAV will bring together all stakeholders of the global profession, namely experts from practice and academia as well as business leaders from around the world and many representatives of national and international authorities. The world congress will therefore make an important contribution to strengthening the relationships between actuarial associations, between universities and companies from the financial sector and with supranational institutions.”

As host of the 31st International Congress of Actuaries, the German Association of Actuaries is very pleased to welcome the combined global actuarial expertise from over 100 countries. With a high-class scientific program, entertaining field trips to Berlin’s most famous sights and numerous other options to spend excellent quality time in Germany’s fascinating capital, the ICA promises to be an outstanding congress for all actuaries.”
"The ICA 2018 represents high-quality continuing education and professional development and an intensive cross-border exchange of ideas and know-how – an excellent investment in the future of the insurance industry."

KLAUS-PETER FELD
Executive Director of the Institute of Public Auditors in Germany (IDW)

"Get ready! The ICA 2018 in Berlin provides a great opportunity to discuss the latest developments with expert colleagues and prepare yourself for the upcoming tasks."

FRANK GRUND
Chief Executive Director of the Insurance and Pension Funds Supervision (BaFin)

"Our system of retirement provision is facing great challenges – the ICA 2018 will offer new ideas and innovative approaches to secure and develop (occupational) pension provision as a key component of securing people’s futures."

HERIBERT KARCH
Chairperson of the German Association for Occupational Pensions (aba)

"The ICA 2018 – where combined global actuarial expertise comes together."

UWE LAUE
Chief Executive Officer of the Association of German Private Healthcare Insurers (PKV)

"Solvency II, new challenges in risk management and increasing digitalization – the expertise of actuaries is more in demand than ever before. The ICA 2018 provides the ideal forum for the presentation of innovative solutions, for specialist discussion and for personal networking and exchange of ideas and information."

WOLFGANG WEILER
President of the German Insurance Association (GDV)

"Social security needs actuarial knowledge and advice to meet the challenges of uncertain times."

GUNDULA ROßBACH
President of the German Pension Insurance

"I am delighted that the ICA brings together the world’s actuaries and their knowledge in Germany in 2018."

TOBIAS PROSS
President of the German Investment Funds Association (BVI)

"The ICA 2018 represents high-quality continuing education and professional development and an intensive cross-border exchange of ideas and know-how – an excellent investment in the future of the insurance industry."

ANDREAS EURICH
Chairman of the Board of the Employers’ Association of insurance companies in Germany (AGV)

"Under Solvency II actuaries belong to the key personnel of insurers. In the development of new products it is their role to balance attractive features for customers and risks for companies. Insofar they are the backbone of modern insurers and their importance increases further as undertakings collect more and more data."

MICHAEL RÖCKNER
President of the German Mathematical Society (DMV)

"The ICA 2018 bridges actuarial science and industry and is thus the perfect link between the two."

WOLFGANG WEILER
President of the German Insurance Association (GDV)

"For home finance using building society contracts, an actuary is indispensable for the risk management of the collective building society business. Sophisticated model calculations relating to building society business are required to evaluate new tariffs and to forecast the development of the building society savings collective under various conditions."

ANDREAS J. ZEHNDER
Chairman of the Management Board of the Association of Private Bausparkassen (VdPB)

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ICA – a congress travels around the world

The International Congress of Actuaries is held every four years in a different capital city. Following the ICA 2010 in Cape Town and the ICA 2014 in Washington this year’s International Congress is coming to Germany. The last International Congress to be held in Germany – exactly 50 years ago – took place in Munich.

Host of this year’s ICA will be the International Actuarial Association, together with the German Association of Actuaries (Deutsche Aktuarvereinigung e.V., DAV).

The German Association of Actuaries
The DAV is the professional body representing all actuaries in Germany. It was founded in 1993 and has nearly 5,200 members today. Another 1,600 candidates for membership are actively enrolled on its in-house education and examination program. Hence the DAV is one of the five biggest actuarial associations in the world. More than 700 members are involved on twelve committees and in over 60 working groups as a voluntary commitment. Significantly more are active in the fields of education, CPD seminars, cooperation with universities and in various actuarial projects all over the world.
The International Actuarial Association (IAA)

The IAA is the worldwide association of professional actuarial associations, with a number of special-interest Sections for individual actuaries. Founded in 1895, the IAA exists to encourage the development of a global actuarial profession that is acknowledged as technically competent and professionally reliable, ensuring that the public interest is served.

The IAA has 73 Full Member Associations, representing 98 percent of qualified actuaries worldwide, and 25 Associate Member Associations.

The Vision
The Vision of the IAA is that the actuarial profession is recognized worldwide as a major player in the decision-making process within the financial services industry, in the area of social protection and in the management of risk, contributing to the well-being of society as a whole.

The Mission
The mission of the IAA, as the worldwide organization of actuarial associations, is:

- to represent the actuarial profession and promote its role, reputation and recognition in the international domain; and
- to promote professionalism, develop education standards and encourage research, with the active involvement of its Member Associations and Sections, in order to address changing needs.

Sections of the IAA
In order to encourage actuarial research and development in particular areas of practice, and to provide suitable international forums for discussion among individual actuaries, the IAA has created specialized Sections with various categories of members. Currently, the IAA has seven Sections: AFIR-ERM, ASTIN, IAALS, IACA and PBSS.

Become a member of the IAA Sections
To become a member of a Section of the IAA, please contact your national actuarial association or register at www.actuaries.org.
ICA 2018 AT A GLANCE

102 COUNTRIES represented by speakers and participants

Slots per section:
- AFIR-ERM: 86
- ASTIN: 71
- PENSIONS: 62
- LIFE: 58
- HEALTH: 38
- IACA: 28
- EDUCATION: 12
- PROFESSIONALISM: 18

Biggest ICA in the history of all ICAs with more than 2750 expected participants and accompanying persons

109 bursaries financed by the IAA Bursary Fund

126 volunteering members organized in six committees

102 COUNTRIES represented by speakers and participants

574 submitted abstracts for the parallel sessions in the ICA 2018 congress program

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55 sponsors
- 5 platinum sponsors
- 6 gold sponsors
- 7 silver sponsors
- 33 bronze sponsors
- 4 media partners

Various congress formats:
- 5 Plenary Sessions
- 30 Invited Speaker Sessions
- 267 Contributed Talks

279 accepted papers in the congress program

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From experts to experts – The ICA congress program

The scientific program of the ICA, with its various formats, offers a broad-based selection of fascinating actuarial international talks and presentations from the world of actuarial science and finance. Daily plenary sessions will see renowned international experts from business, regulatory affairs and academia speaking about strategic issues of the future and the most pressing challenges facing the insurance and financial industries. Where are we heading and what impact will, for example, demographic developments, new concepts of mobility and an ongoing period of low-interest rates have for insurers?

Moreover, over 30 invited speaker sessions will give delegates the opportunity to hear fascinating talks from eminent experts from insurance and finance. A large part of the scientific program will be made up of the contributed talks: almost 280 abstracts from a total of around 600 submissions from nearly 60 countries have been selected and these will certainly ensure fascinating actuarial talks for both practitioners and academics alike.

HIGHLIGHTS OF THE CONGRESS PROGRAM

Future of Demography/Longevity
Monday 11.00–12.30
Participants
Mikko Myrskylä (Executive Director of the Max Planck Institute for Demographic Research, MPIDR)
Winfried Heinen (Chairman of the Board of Executive Directors, Gen Re)
Moderation: Jacques Wasserfall (Head of Life Technical, Zurich)

Future of Low Interest Rate Environment
Wednesday, 8.30–10.00
Participants
Peter Praet (Member of the Executive Board, European Central Bank, ECB)
Stephen O’Hearn (Global Insurance Leader, PwC)
Klaus Wiener (Chief Economist, German Insurance Association, GDV)
Moderation: Ken Mungan (Chairman of the Board and leads Milliman Financial Risk Management, Milliman)

Future of Regulation
Friday, 11.00–12.30
Participants
Gabriel Bernardino (Chairman of the European Insurance and Occupational Pensions Authority, EIOPA)
Yannick Hausmann (Group General Counsel, Zurich)
Felix Hufeld (President of the German Federal Financial Supervisory Authority, BaFin)
Patrick Raafflaub (Group Chief Risk Officer and Member of the Group Executive Committee, Swiss Re)
Moderation: Nils Dennstedt (Partner Deloitte, B&W Deloitte)
VICA – THE FIRST VIRTUAL ICA

VICA 2018 at a glance
• More than 150 hours of content
• Live stream from 8 conference rooms
• Additional benefit: exclusive recorded sessions from further experts
• The members of the IAA Sections AFIR-ERM, ASTIN, IAALS (LIFE) and IACA get access to the VICA at no extra cost

First Virtual ICA – VICA
A highlight of the ICA 2018 will be the very first Virtual ICA. Thanks to the support of a number of institutional partners from the actuarial community such as the actuarial associations from South Africa, USA, Australia and Japan as well as several Sections of the IAA, many sessions from the stages in Berlin will be broadcast live online and provided as recorded sessions afterwards. This allows a much broader audience from all over the world to follow the high value content presented during the ICA and helps to secure this knowledge in a sustainable manner.

Furthermore, the success of the Call for Papers means that the VICA will also feature many online presentations by authors to whom the ICA could not offer a presentation slot in Berlin. More than 25 hours of additional recorded sessions with up-to-date actuarial content will be provided online before the congress by this group of experts.

Become a member of the IAA
The IAA Sections AFIR-ERM, ASTIN, IAALS (LIFE) and IACA have already decided to become partners of the VICA. This partnership allows members of the Sections to access more than 150 hours of live streams and videos at no further cost. Membership of the IAA Sections, for a very reasonable annual fee of only CA$50 offers several other attractive benefits in addition to free access to the VICA. IAA members can also benefit from receiving the ASTIN Bulletin Journal, accessing the Sections’ online libraries, participating in free webcasts and discounted fees for colloquia and seminars.

To become a member of an IAA Section and benefit from the numerous offers, please see the website www.actuaries.org.

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The Limited Attendance Experiences feature actuarial content off the beaten track. 12 events for a maximum of 50 people in seven exceptional venues in Berlin were offered. After a scientific talk, delegates will get to know the venue with an exclusive guided tour.

All participants not taking part in the LAEs can also attend some of the exciting locations in their free time. For example the Classic Remise, a center for vintage car lovers, the German Museum of Technology, the place to be for fans of all things technical, the Museum of Medical History, where you can learn a lot about the development of medicine until today or the Museum of Communication, where you can go on a journey through ages of communication, to name but few. The locations are well worth a visit!
In addition to numerous scientific sessions, the congress program of the ICA 2018 also includes several social activities. On Tuesday and Thursday afternoon, following the congress program, ICA 2018 delegates are invited to join one of six different field trips through Berlin. Furthermore, three entertaining evening events on Sunday, Tuesday, and Thursday, which are included for all participants who bought a regular ticket before January 31, and a selection of optional tours and events complete the ICA 2018 social program.
Actuaries for Actuaries

To support the valuable Bursary Program of the International Actuarial Association, the DAV launched the charity campaign “Actuaries For Actuaries” in order to enable even more actuaries from emerging countries to attend the ICA 2018. Actuaries worldwide participated and helped to raise funds for the project. In total, 12,000 euros were collected and 3 additional bursaries could be funded.

“I am 100,000”

In 2018, the actuarial associations of the world will reach the impressive number of 100,000 members worldwide. Therefore, to celebrate this milestone for the actuarial community as part of the International Congress of Actuaries 2018 in Berlin, the prize draw “I am 100,000” was created to find and honor an actuary who is representing his or her colleagues from all over the world.

The prize draw was very popular – more than 800 selfies with the “I am 100,000” logo were sent in to participate in the prize draw. The lucky winner is Ntando from Swaziland. She has won a free ticket for the ICA 2018 including free travel and accommodation.

Actuaries, ICA 2018 and some GOOD MUSIC

Established at the beginning of 2016, the rock band “Carl Friedrich and the Abnormal Distribution” had their debut in April 2016 during the Spring Meeting of the German Actuarial Association.

After performing some well-known rock classics, the band decided to write their own songs – about actuaries, the ICA 2018, Berlin and the great mathematician Carl Friedrich Gauss. At the ICA 2018 the band will perform at the Opening Ceremony.
With more than 80 million inhabitants Germany is not only Europe’s largest nation by population and economic performance, it is also one of the most popular tourist destinations in the world. To explore Germany, Bavaria is a good starting point with its very rich culture and long traditions, famous for its hearty and tasty cuisine, and scenery of mountains, lakes and beautiful castles such as the world-famous and breathtaking Castle Neuschwanstein.

Another popular region is the upper Rhine valley with its many vineyards, a blossoming landscape and the romantic Lorelei rock. A cruise on the river Rhine, passing charming wine towns and ancient castles, is the ideal way to explore this part of Germany. Romantic landscapes and traditional cities can also be found in the Black Forest, also known for its cuckoo clocks.

Baden-Baden, one of Europe’s most fashionable spa towns, is an ideal base for exploring the Black Forest and a great place for gourmets and wine lovers. Cologne, Germany’s fourth largest city, offers a lot more than the really impressive Cologne Cathedral, a World Heritage Site and one of Germany’s most popular tourist attractions. The famous Cologne Carnival attracts many people to celebrate in fancy dress all over the town. Another historical fascinating city is located in the east of Germany: Dresden and its baroque church Frauenkirche, completely rebuilt after World War II and famous for its grand dome, makes this beautiful historic city center, definitely worth a visit.

In the north of Germany, the city of Hamburg waits to be explored. Considered to be Germany’s gateway to the world, the city boasts the biggest port in Germany and the second biggest in Europe. A huge port area with its bustling life, original Hanseatic charm and world famous nightlife are just a couple of good reasons to see this city. These are a few out of a long list of breathtaking destinations in Germany. We offer several suggestions for optional tours through Germany and its neighboring European countries on our website. Seize this chance and explore Germany by hiking on idyllic trails, travelling by train on Germany’s vast railway network or by car on its famous Autobahns. And we promise – you won’t regret your visit!
INTERNATIONAL ACTUARIAL ARENA

- Info point
- ICA services – Mobile charger
- ICA services – Reading zone
- Coffee bar
- Virtual reality box
- Candy corner
- Restrooms

Activities:
- XXL table soccer supported by \( \text{MSG} \)
- Actuarial Soccer World Cup Forecast supported by \( \text{Wills\,Towers\,Watson} \)
- International actuarial casino
- Mini-golf
- Slot car racing
- Air hockey
- Kick it soccer simulator
- Electronic darts

Exhibitors:
01 FIS
02 SCOR
03 ICA services – Mobile charger
04 edlund
05 Swiss Re
06 \( \text{Wills\,Towers\,Watson} \)
07 \( \text{ERA} \)
08 Aetioria
09 Grinre
10 ProWol
11 \( \text{Insure} \)
12 \( \text{Aegae} \)
13 Müller Re
14 Conning
15 Deloitte
16 GEA
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20 ROKOCO
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