The Population Issues Working Group (PIWG) and the Mortality Working Group (MWG) of the IAA are very pleased to offer a seminar on Current Developments in Aging and Mortality in conjunction with the IAA Council and Committee meetings in Budapest on 18 April 2017.

The world we live in is becoming increasingly affected by demographic developments such as increasing longevity, falling fertility and extensive migration flows. These trends have important impacts on the work of actuaries in all areas of our involvement.

Insights into the level of and trends in mortality around the world have never been more important. While mortality rates are declining in most countries, in other countries they are stable and in some instances are even increasing. Mortality rates affect many aspects of society, and this seminar will examine some of the important current issues such as: whether current levels of mortality improvements are slackening off, whether we have the right assumptions regarding mortality at high ages, how mortality is likely to change in the future and what might drive these changes. It will also take a look at new research in progress, and how this research may influence future actuarial practice.

The aging of populations put significant pressure on retirement, long-term care and health systems. The seminar will discuss how actuaries can influence solutions that mitigate the stress and how future demographic developments will impact our work.

The seminar will conclude with a panel discussion on the applicability of the main conclusions of the seminar to the real life actuarial work. This panel discussion will be introduced by Gyula Horváth, past president of the Hungarian Actuarial Society: Magyar Aktuárius Társaság.

THE SEMINAR IS OPEN TO ALL — REGISTER HERE
9:00 - 10:00
Arrival Tea/Coffee and Networking

10:00 - 10:10
Introduction to the Working Groups and Opening Remarks

Speakers: Assia Billig and Brian Ridsdale

10:10 - 10:45
Is Longevity Still Improving?
In some countries, recent years of heavier mortality cast doubt on assumptions about future mortality improvements. It’s a subject of particular interest to actuaries. What do we know so far?

Speaker: Brian Ridsdale, Chair, IAA Mortality Working Group
Retired General Manager, Zurich Life UK; Past Chair CMI

10:45 - 11:20
Long Term Care
The IAA’s Population Issues Working Group has prepared a paper on long-term care addressing care for the oldest segment of the population, which will present huge financial and practical challenges in most countries. It is the result of the aging of the population and will increase to epidemic proportions in the coming decades. The highlights of the paper will be presented.

Speaker: Sam Gutterman, Co-Vice-Chair, IAA Population Issues Working Group. Retired Director, PricewaterhouseCoopers Chicago, USA

11:20 - 11:55
Determination of Retirement and Eligibility Ages
Increases in longevity and decreases in fertility combined with low interest rates have put financial pressure on social security programs and pension funds. This has led to consideration of increasing the eligibility age of all retirement income pillars. The effect on individuals, employer sponsored plans, social security programs and the labour market is far reaching.

Speaker: Martin Stevenson, Vice-Chair, IAA Population Issues Working Group. Consultant, formerly Partner Mercer Australia.
11:55 - 12:30

High-age Mortality and Population Heterogeneity – Data, Assumptions and Modelling Issues

The age pattern of mortality at high ages and the “deceleration” phenomenon constitute controversial issues. In this talk, the results of various statistical analyses are first presented and commented. Then, a model-based explanation of the mortality deceleration is discussed, relying on the presence of unobservable heterogeneity factors. Some actuarial implications of heterogeneity and deceleration are finally focussed.

Speaker: Ermanno Pitacco, Co-Vice-Chair, IAA Mortality Working Group. Professor of Actuarial Mathematics, Faculty of Economics, University of Trieste, Italy

12:30 - 13:45

Lunch

13:45 - 14:20

International Social Security Association Paper on Demographic Megatrends

We all know that people are – in general – living longer and the world is aging. But by focusing on specific elements of such changes, the ISSA Demographic Megatrends report identifies the 3 key trends that are most likely to impact social security – and society in general – in the decades ahead. The presentation will detail the trends, what social security systems can do to respond and the role that actuaries can and should be playing.

Speaker: Simon Brimblecombe, Responsible Investment, Actuarial Work and Research at International Social Security Association, Geneva, Switzerland

14:20 - 14:55

Drivers of Future Mortality

Many actuaries try to predict future mortality using various extrapolation techniques, but they rarely consider the future drivers of mortality. This presentation will provide some preliminary results from a paper being written by an international group of mortality and longevity experts entitled “Long Term Drivers of Future Mortality”.

Speaker: Al Klein, Co-Vice-Chair, IAA Mortality Working Group
Principal and consulting actuary, Milliman, Chicago, USA
14:55 - 15:30

Actuarial Perspectives on Inequality

Inequality can take different shapes and impact different aspects of societies and lives of individuals. This presentation is a preview of the upcoming PIWG paper on actuarial perspective of inequality. It will touch on the implications the trends in inequality have on actuarial work, as well as on what actuaries could do to positively alter future developments.

Speaker: Assia Billig, Chair – Population Issues Working Group
Senior Actuary, Office of the Chief Actuary, OSFI-BSIF Canada

15:30 - 16:00

Coffee Break

16:00 - 16:35

International Developments in Actuarial Mortality Research

We have observed different rates of improvement in mortality over different time periods and at different ages, with an uncertain future, leading actuaries to ask how is mortality going to develop in the future. The Institute and Faculty of Actuaries has recently funded two large research programmes that will look at different aspects of this. The directions of these two projects will be discussed ranging from new models for measuring longevity risk through to novel statistical analysis of big health data. The second half of the talk will cover the potential impact of this research on actuarial practice.

Speaker: Prof Andrew Cairns, Director of the Actuarial Research Centre (ARC), Institute and Faculty of Actuaries (UK)

16:35 - 17:15

Panel Discussion with Hungarian input provided by Gyula Horváth

Gyula Horváth, Chief Financial Officer, Aegon Hungary
Past President of the Hungarian Actuarial Society

17:15 - 18:00

Networking Opportunity