November 3, 2020

Dear members, welcome to the Sep-Oct 2020 edition of ASTIN Newsletter. It provides a general update regarding the ASTIN activities over the last two months as well as its future planned activities.

Our Activities – Update

As the world is going through a massive second wave of COVID-19 pandemic we all continue to be put under immense strain of lockdown and physical distancing affecting our personal life and professional activity.

As the result of this, we have revised the plan of our activities for Q4 2020 and also 2021 as follows:

• Regional face-to-face events initially planned to be held in Helsinki and Tokyo in Q4 2020 have been postponed until the second half of 2021.
• The production of masterclasses initially planned for 2020 has been postponed until the second half of 2021.
• 2021 ASTIN Colloquium in Orlando has been postponed until the spring of 2022. ASTIN will still hold its 2021 AGM virtually in 2021.

We will keep you updated with additional information as it becomes available.

The continuing COVID-19 pandemic is also impacting the global actuarial profession. Earlier, the IAA announced that the ICA 2022 in Sydney will now be held in May-June 2023.

We have been leveraging technology to sustain our professional activity and continue providing services to the membership. This includes ASTIN Webinars, virtual seminars, as well as online discussion forums of our new digital platform ‘Expert Helpline’.
ASTIN regularly organises its topical webinars with the assistance of the IAA Secretariat. They are used to share knowledge and expertise among ASTIN members and the wider non-actuarial community.

A recording of each webinar, along with a PDF copy of the presentation, can be found on the ASTIN website and are freely accessible to ASTIN members (login required). Not a member? You can participate by simply joining ASTIN Section (membership fee is CAD 50.00).

Forthcoming webinar

We are planning to hold the following webinar:

- 18 November 2020 – *Joint model prediction and application to individual-level loss reserving* by Peng Shi (USA)

**Abstract:** In non-life insurance, the payment history can be predictive of the timing of a settlement for individual claims. Ignoring the association between the payment process and the settlement process could bias the prediction of outstanding payments. To address this issue, we introduce into the literature of micro-level loss reserving a joint modelling framework that incorporates longitudinal payments of a claim into the intensity process of claim settlement. We discuss statistical inference and focus on the prediction aspects of the model. We demonstrate applications of the proposed model in the reserving practice and identify scenarios where the joint model outperforms macro-level reserving methods.

Please click here to register.

New Initiatives

**ASTIN Academy**

**Wanted! ASTIN Academy Course Builders.**

To initiate the newly formed ASTIN Academy, we are seeking volunteers to develop an online course on loss data analytics. This is a global call, open to people who are eager to support the development of actuaries, especially in emerging markets. The plan includes interactive activities with practical actuarial tools and various case studies.

This project will be led by Prof. Edward Frees, University of Wisconsin-Madison and Australian National University. Professor Frees has many years of experience in teaching actuarial science in multiple countries.

Volunteers eager to join this next generation challenge of ASTIN are very welcome to send a short CV to Prof. Edward Frees and Miyuki Ebisaki, Chairs of the ASTIN Academy.

Please see the linked page for details.
ASTIN Board Changes

The ASTIN Board has appointed Axel Wolfstein to assume the role of ASTIN Secretary effective 1 January 2021. Axel Wolfstein is replacing outgoing ASTIN Secretary, Yuriy Krvavych, who has been serving in this role for the past 3 years. We wish Axel every success in his new role, and sadly say goodbye to Yuriy and thank him for his hard work and contribution to ASTIN.

ASTIN Bulletin

We are pleased to announce that our publisher, Cambridge University Press, has published our third issue of 2020 (Volume 50, Number 3).

This issue features 14 articles:

- **WAVELET-BASED FEATURE EXTRACTION FOR MORTALITY PROJECTION**
  Donatien Hainaut, Michel Denuit
- **VALUATION OF HYBRID FINANCIAL AND ACTUARIAL PRODUCTS IN LIFE INSURANCE BY A NOVEL THREE-STEP METHOD**
  Griselda Deelstra, Pierre Devolder, Kossi Gnameho, Peter Hieber
- **JOINT OPTIMIZATION OF TRANSITION RULES AND THE PREMIUM SCALE IN A BONUS-MALUS SYSTEM**
  Kolos Csaba Ágoston, Márton Gyetvai
- **TESTING FOR RANDOM EFFECTS IN COMPOUND RISK MODELS VIA BREGMAN DIVERGENCE**
  Himchan Jeong
- **A STATISTICAL METHODOLOGY FOR ASSESSING THE MAXIMAL STRENGTH OF TAIL DEPENDENCE**
  Ning Sun, Chen Yang, Ricardas Zitikis
- **DISTORTION RISKMETRICS ON GENERAL SPACES**
  Qiuqi Wang, Ruodu Wang, Yunran Wei
- **AN EFFECTIVE BIAS-CORRECTED BAGGING METHOD FOR THE VALUATION OF LARGE VARIABLE ANNUITY PORTFOLIOS**
  Hyukjun Gweon, Shu Li, Rogemar Mamon
- **PORTFOLIO INSURANCE STRATEGIES FOR A TARGET ANNUITIZATION FUND**
  Mengyi Xu, Michael Sherris, Adam W. Shao
- **EFFICIENT DYNAMIC HEDGING FOR LARGE VARIABLE ANNUITY PORTFOLIOS WITH MULTIPLE UNDERLYING ASSETS**
  X. Sheldon Lin, Shuai Yang
- **RISK-BASED CAPITAL FOR VARIABLE ANNUITY UNDER STOCHASTIC INTEREST RATE**
  Jindong Wang, Wei Xu
- **TAXATION OF A GMWB VARIABLE ANNUITY IN A STOCHASTIC INTEREST RATE MODEL**
  Andrea Molent
- **A METHOD FOR CONSTRUCTING AND INTERPRETING SOME WEIGHTED PREMIUM PRINCIPLES**
  Antonia Castaño-Martínez, Fernando López-Blazquez, Gema Pigueiras, Miguel Á. Sordo
- **RISK MEASURES DERIVED FROM A REGULATOR’S PERSPECTIVE ON THE REGULATORY CAPITAL REQUIREMENTS FOR INSURERS**
  Jun Cai, Tiantian Mao
- **LARGE-LOSS BEHAVIOR OF CONDITIONAL MEAN RISK SHARING**
  Michel Denuit, Christian Y. Robert

To access articles, please login to the [IAA website](https://iaa.org) and select Publications —> ASTIN Bulletin and click on the ASTIN Bulletin image or hyperlink where you will be redirected to the Cambridge Core website.
Forthcoming Events

IAA Meetings

• Brussels, Belgium – May 8-13, 2021 (virtual meeting)
• Seoul, South Korea – Oct 11-15, 2021 (tentative)
• Sydney, Australia – May 24-27, 2023

ASTIN Colloquia

2022 – May, Orlando, FL, USA (exact dates TBC)

The ASTIN Colloquium will be held jointly with the AFIR-ERM Section at Disney’s Coronado Springs, in collaboration with the CAS.

2023 – 28 May - 1 June, Sydney, Australia

ASTIN Colloquium will be held as part of 32nd ICA.

2026 - Tokyo, Japan

ASTIN Colloquium will be held as part of 33rd ICA.

Resources

Don’t forget the following resources which have a lot of information about ASTIN, and its research:

ASTIN Annual Report | ASTIN Bulletin | ASTIN Video | ASTIN Newsletters | ASTIN website

Also, please follow us on social media: LinkedIn, Twitter and Facebook.

Contacts

Key contacts on the ASTIN Board

• Frank Cuypers [Chairman]
• Yurii Kravych [Secretary]