

## The Bernoulli Society for Probability Theory and Statistics

László Márkus Chair European Regional Committee



- The Bernoulli Society was founded in 1975.
- It is a Section of the **International Statistical Institute** (<u>ISI</u>).
- Established in 1885, the ISI is one of the oldest scientific associations operating in the modern world.
- "The objectives of the Bernoulli Society are the advancement of the sciences of probability (including stochastic processes) and mathematical statistics and of their applications to all those aspects of human endeavour which are directed towards the increase of natural knowledge and the welfare of mankind."



- The Bernoulli Society has a membership of more than 1200 representing nearly 70 countries from all the continents.
- The Society has partnered with some societies to offer joint membership. These include the ISI and the Institute of Mathematical Statistics (IMS).
- The Bernoulli Society sponsors several scientific high level standards publications the most renowned are the Bernoulli Journal and Stochastic Processes and their Applications.



As one of its main activities, the Bernoulli Society organizes or sponsors several international meetings in mathematical statistics, probability and stochastic processes. The most important Bernoulli Society meetings with a proud tradition are:

- The **World Congress** of the Bernoulli Society every four years since 1986.
- The Conference on Stochastic Processes and their Applications organized every year since 1971 by the Committee for Conferences on Stochastic Processes.
- The European Meeting of Statisticians since 1962 and
- the **European Young Statisticians Meeting** since 1978, both of them organized biennially by the European Regional Committee.
- The Latin American Congress in Probability and Mathematical Statistics organized every two or three years since 1980 by the Latin American Regional Committee



Bernoulli Society members profit from the following benefits:

- Reduced registration fees for meetings organized or sponsored by the Bernoulli Society.
- Free of charge access to the online versions and reduced rates for print copies of the:
  - <u>Bernoulli Journal</u> (back to Volume 1 in 1995)
  - <u>Stochastic Processes and their Applications</u> (back to Volume 1 in 1973)
  - Bernoulli News
- Members receive the print version of <u>Bernoulli News</u>, the electronic bulletins Bernoulli E-Briefs and ISI News.
- Members get special subscription rates for a number of related publications in probability, statistics and stochastic processes.
- Kluwer offers a 20% discount on their books, if ordered directly.
- Reduced rates are available for subscription to STMA-Z, online version or DVD
- Members with a BS-IMS or BS-IMS-ISI joint membership have free electronic access to the IMS journals: <u>Annals of Statistics</u>, <u>Annals of Probability</u>, <u>Annals of Applied Probability</u>, <u>Annals of Applied Statistics</u> and <u>Statistical Science</u>.



- The Bernoulli Society is led by an **Executive Committee** and a **Council**.
- Standing Committees of the Bernoulli Society
- <u>Committee for Conferences on Stochastic Processes</u>
- <u>Committee on Probability and Statistics in the Physical Sciences</u>
- <u>Publications Committee</u>
- European Regional Committee
- East-Asian and Pacific Regional Committee
- Latin American Regional Committee SLAPEM
- <u>Schramm/Doob Lecture Selection Committee</u>
- Bernoulli Society Special 2013 Committee



Bernoulli Society for Mathematical Statistics and Probability

The Bernoulli's form a large family of mathematicians, physicians, pharmacists, physicists, geologists, lawyers, priests and teachers, but we also find a fair number in trade and commerce.

- A few Bernoulli's that are close to the goals of the society:
- The most well-known is Jacob (1655-1705), mathematician, astronomer and the author of *Ars Conjectandi*. He applied probability theory to moral, political and economic subjects.
- Then there is Johann (1667-1748), brother of Jacob, chemist, mathematician and (as you might not know) discoverer of *de l'Hôpital's rule*.
- A third is Daniel (1700-1782), son of Johann, mathematician and philosopher. These three Bernoulli's can be seen on the figure.







Jakob Bernoulli 1655–1705

Johann Bernoulli 1667–1748 (a. St.)

Daniel Bernoulli 1700–1782 (a. St.)

• Further there is Niklaus (1687-1759) who was responsible for the printing of the *Ars Conjectandi* in 1713. These four are just a few from a very remarkable family.



Bernoulli Society for Mathematical Statistics and Probability

- Let me single out the role of Jerzy Neyman, Henri Theil and Julian Keilson in the creation of the *Bernoulli Society*.
- Jerzy Neyman initiated the establishment of what later became the *International Association for Statistics in the Physical Sciences*.
- The idea of creating a European regional group of statisticians arose at a meeting between Henri Theil and Jim Durbin at Harvard in April 1960. The end result was the *ERC of the IMS*.
- In July 1971 Julian Keilson took the initiative to create the *Committee for Conferences on Stochastic Processes*, that became the youngest ancestor of the BS.
- The amalgamation of the three organisation into an independent body that became the Bernoulli Society took place in a fascinatingly intricate way, after much struggles and political wrestling.
- Both the International Statistical Institute and IMS should be considered as coaches, watching from the sideline.



- The International Year of Statistics is a worldwide celebration and recognition of the contributions of statistical science. Through the combined energies of organizations worldwide, Statistics2013 will promote the importance of Statistics to the broader scientific community, business and government data users, the media, policy makers, employers, students, and the general public.
- The goals of Statistics2013 include:
  - increasing public awareness of the power and impact of Statistics on all aspects of society;
  - nurturing Statistics as a profession, especially among young people; and
  - promoting creativity and development in the sciences of Probability and Statistics



## Statistics2013, The International Year of Statistics

- 1. Publication of Special Issues of the Bernoulli Journal and the journal Stochastic Processes and their Applications (SPA) in 2013.
- 2. An invited paper related to the historic and future impacts of Ars Conjectandi will appear in 2013 in the Bulletin of the American Mathematical Society cosponsored with the Bernoulli Society.
- 3. 59th ISI World Statistics Congress in Hong Kong; August 24 -30, 2013. Invited Paper Session History I: Jacob Bernoulli's "Ars Conjectandi" as the emergence of probability.
- 4. 36th Conference on Stochastic Processes and their Applications in Boulder, Colorado, July 29 August 2, 2013 public lecture by Kenneth Golden.
- 5. 29th European Meeting of Statisticians (EMS) in Budapest, Hungary, July 20 25, 2013.

a. Ars Conjectandi lecture celebrating the 300th anniversary of its publication: Glenn Shafer, one more speaker TBA.

b. Thomas Bayes commemorial lecture for the 250th anniversary of presentation of his essays: Christian P. Robert

c. Commemorial session for the 300th Anniversary of the St. Petersburg paradox Organiser: István Berkes

d. Panel discussion on the future of statistics Moderator: Wilfrid Kendall, panel members: Michale Jordan, Steffen Lauritzen, Henry Wynn, two more TBA.



## Statistics2013, The International Year of Statistics

- 6. International Conference Ars Conjectandi 1713-2013, Basel, October 15-16, 2013, will focus on the history of the Ars Conjectandi, the impact on science and the development to date of the most important result in this book; the Law of Large Numbers. The Bernoulli Society is one of the organizations sponsoring the Basel Conference.
- 7. During Mathematical Congress of the Americas held in Guanajuato, Mexico, August 5-9, 2013, a public lecture on Ars Conjectandi is going to be delivered by Persi Diaconis.
- 8. In Fall of 2013 a public event will be held in Portland, Oregon, USA. The event will be organized by representatives of seven different universities and the president of the Oregon Academy of Science and will gather state legislators, teachers, students, and news media. It will consists of a lecture by a prominent speaker followed by a reception that will include an award ceremony for the local video contest entries to the international competition.



## **Statistics2013 Participation Approaches 1,000**

As of October 11, 2012, 955 organizations representing at least 98 countries have signed on as participants for the International Year of Statistics. More than 150 of these organizations joined in the past three weeks!

If your organization has not signed on, please do so today by going to <u>http://statistics2013.org</u> and clicking on "Join."

Joining creates no obligation, but it does connect you to the worldwide network of organizations and people who will be promoting the profession throughout the International Year of Statistics.