TEMPUS PROJECT IB-JEP-25054-2004
Training Centre for Actuaries and Financial Analysts

EUROPEAN COMMISSION
Directorate -- General Education and Culture

PROGRAM

INTERNATIONAL SUMMER SCHOOL
"INSURANCE AND FINANCE: SCIENCE, PRACTICE AND EDUCATION"

23 June – 30 June 2007
Foros (Crimea, Ukraine)

PROGRAM
INTERNATIONAL SUMMER SCHOOL
"INSURANCE AND FINANCE: SCIENCE, PRACTICE AND EDUCATION"

24.06. Sunday

Chairman – Professor Yurij Kozachenko

Opening of the School: Dmitrii Silvestrov (Mälardalen University,Västerås, Sweden)

Lecture 1. (12.00 – 12.40). Dmitrii Silvestrov, Anatoliy Malyarenko (Mälardalen University Västerås, Sweden). **Analytical Finance Package.** (40 min).

Lecture 2. (12.40 – 13.20). Oleksandr Borysenko (Kyiv National University, Ukraine). **Models of Mortality in Actuarial Training Course "Models" CT4**. (40 min).

Chairman – Professor Dmitrii Silvestrov

Lecture 3. (15.00 – 15.30). Oleksandr Ponomarenko (Kyiv National Taras Shevchenko University). **Problems of Development of Personal Insurance in Ukraine.** (30 min).

Lecture 4. (15.30 – 15.50). Tetyana Mamchych (Volyn Lesya Ukrainka State University). **Some Statistical Aspects of Statistical Education.** (20 min)

Lecture 5. (15.50 – 16.10). Rostislav Maiboroda (Kyiv National Taras Shevchenko University), **Valentina Pleskach** (Research Financial Institute of Ministry of Finance of Ukraine). **Development of Structural Models of Ukrainian Economics.** (20 min).

25.06. Monday

Chairman – Associate Professor Oleksandr Borysenko

Lecture 1. (12.00 – 12.40). Andriy Olenko (Kyiv National Taras Shevchenko University). **Course "Contingencies" at Training Center for actuaries and financial analysts.** (40 min).

Lecture 2. (12.40 – 13.20). Mikhail Moklyachuk and Rostyslav Yamnenko (Kyiv National Taras Shevchenko University). **Systems of Financial Analysts Training.** (40 min)

Chairman – Professor Mikhail Moklyachuk

Lecture 3. (15.00 – 15.30). Yurij Kozachenko, Oleksandra Kamenschykova (Kyiv National Taras Shevchenko University). **Linear Interpolation of Random Processes in the Space $L_p(T)$.** (30 min)

Lecture 4. (15.30 – 15.50). Olga Vasylyk and Rostyslav Yamnenko (Kyiv National Taras Shevchenko University). **φ-Sub-Gaussian Risk Processes.** (20 min).

Lecture 5. (15.50 – 16.10). Tetyana Yakovenko (Kyiv National Taras Shevchenko University). **On Belonging of the Stochastic Process Trajectories to Some Besov Spaces.** (20 min).

26.06. Tuesday Free time.

27.06. Wednesday

Chairman – Doctor of Science Nadiia Zinchenko

Lecture 1. (12.00 – 12.30). Nadiia Zinchenko (Kyiv National Taras Shevchenko University). **Strong Invariance Principle for Renewal-Reward and Randomly Stopped Processes.** (30 min).

Lecture 2. (12.30 – 13.00). Mikhail Moklyachuk (Kyiv National Taras Shevchenko University). **Robust Estimation Problems for Periodically Stationary Stochastic Processes.** (30 min).

Lecture 3. (13.00 – 13.20). Dmitrii Silvestrov (Mälardalen University Västerås, Sweden), **Zakir Abadov** (Azerbaijan). **Asymptotic Expansions for Stationary Distributions of Nonlinearly Perturbed Markov Chains.** (20 min).

Chairman – Associate Professor Vadym Radchenko

Lecture 4. (15.00 – 15.20). Maryna Androshchuk (Kyiv Taras Shevchenko National University). **Ruin Probabilities for Insurance Models Involving Investments.** (20 min).

Lecture 5. (15.20 – 15.40). Alexander Kukush and Mychailo Pupashenko (Kyiv National Taras Shevchenko University). **Bounds for a Sum of Random Variables Under a Mixture of Normals**. (20 min).

Short communications

(15.40 – 16.00). Vasilij Chernecky (Odessa I.I.Mechnikov National University). **Explicit solution of the fundamental equation of risk theory for discrete model.** (20 min).

(16.00 – 16.20). Oleksandr Moklyachuk (Kyiv National Taras Shevchenko University). **Modelling of random process with known correlation function with the help of Karhunen-Loeve decomposition.** (20 min)

28.06. Thursday

Chairman – Associate Professor Andriy Olenko

Lecture 1. (12.00 – 12.30). Dmitrii Silvestrov (Mälardalen University Västerås, Sweden). **Asymptotic Expansions for the Distribution of the Surplus Prior and at the Time of a Ruin.** (30 min).

Lecture 2. (12.30 – 13.00). Dimitrios Konstantinides (University of the Aegean, Karlovassi, Greece). **Risk Models with Extremal Subexponentiality.** (30 min)

Lecture 3. (13.00 – 13.30). Robin Lundgren (Mälardalen University, Västerås, Sweden). **Structure of Optimal Stopping Domains for American Put Options with Knock Out Domains.** (30 min).

Chairman – Professor Dmitrii Silvestrov

Lecture 4. (15.00 – 15.20). Richard F. Bonner (Mälardalen University, Västerås, Sweden). **Financial Streams as Measures**. (20 min).

Lecture 5. (15.20 – 15.40). Richard Bonner and Anna Fedyszak-Koszela (Mälardalen University, Västerås, Sweden)**. Learning a real number, rationally.** (20 min).

Lecture 6. (15.40 – 16.10). Vadym Radchenko (Kyiv National Taras Shevchenko University). **Risk-Minimizing Hedging in the Model with Jumps.** (30 min).

<u>**29.06. Friday**</u>

Round table "Problem of actuarial profession and actuarial education in Ukraine" (12.00 – 13.00)
Chairman – Associate Professor Oleksandr Ponomarenko

Yurij Ivanko (Society of Actuaries of Ukraine). **National system of professional actuarial education. Directions of development.** (30 min)

Vera Butova (Statefinservice, Ukraine). **Presentation of new version of Law of Ukraine "On Insurance"**(30 min)