



Academic Society "Matei-Teiu Botez" Iași, România

Faculty of Civil Engineering Iași, România



INVITATION

You are kindly invited to participate to

THE 4TH INTERNATIONAL SYMPOSIUM

Dedicated to 65 years from the Faculty of Civil Engineering of Iași's opening & occasioned by 90 years from Professors Anton Șesan and Alexandru Negoită birthdays

Computational Civil Engineering 2006

May 26, 2006, Technical University "Gh. Asachi" Iași, România

Important dates: - participation confirmation and abstract - April 15th, 2006

- full paper - May 15th, 2006

Main topics:

- Computer Aided Design and Engineering

- Computer Programming for Civil Engineering

- Computer-Based Education

- Computational Methods in Civil Engineering

- Databases in Civil Engineering

- Computer Aided Management in Civil Engineering

Web address:

- <http://www.ce.tuiasi.ro/english/conferences/> (in English)

- <http://www.ce.tuiasi.ro/romana/conferinte/> (in Romanian)

Symposium's Organizers:

Academic Society "Matei-Teiu Botez" Iași

&

Faculty of Civil Engineering,

Structural Mechanics Laboratory

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Constantin Ionescu,

Professor of Structural Engineering

President of the Academic Society "Matei-Teiu Botez"

Nicolae Țăranu,

Professor of Civil Engineering

Dean of the Faculty of Civil Engineering

HISTORICAL MOMENTS FROM CIVIL ENGINEERING TECHNICAL EDUCATION IN MOLDOVA

- **Midle Age and the beginning of Modern Age**
 - “Schola latină” (Latin School) from Cotnari (1562-1563) (during the ruling of the voivode Eraclide “the Despot”).
 - Superior College (also named “Vasilian Collage” or “Vasilian Academy” after the voivode Vasile Lupu) from the Trei Ierarhi Monastery in Iași (1634-1653).
 - “Școala Domnească” (Royal or Voivodal School) from Iași (1714).
- **XIXth Century**
 - “Școala de ingineri hotarnici” (School of Land Surveyors) in Romanian language from Iași (1813-1820) created by Gheorghe Asachi. This is the first testimony of engineering technical education in Romanian language in Iași.
 - “Academia Mihăileană” (“Mihailean Academy”, after the voivode Mihail Sturdza) from Iași (1834-1848). Through the Mihailean Academy, durable foundations for Romanian Higher education were laid.
 - Mihail Kogălniceanu (politician, historian, writer and journalist) makes the project for organizing in Iași an “Applicative School for Roads, Bridges and Buildings” („Școala de aplicație pentru drumuri, poduri și zidiri”). This is the first project of a polytechnic school in Romania (1850).
- **XXth Century**
 - Inside the University of Iași, the next Applied Sciences sections are created: Electrotechnic, Industrial Chemistry, and Agricultural Chemistry (1912).
 - The „Gheorghe Asachi” Polytechnical School from Iași (1937) containing the next Faculties: Electrotechnic, Industrial Chemistry, and Agriculture is formed.
 - The Faculty of Civil Engineering is established (1941).
 - The Polytechnical School from Iași is divided in 1948 into:
 - „Ion Ionescu de la Brad” Agronomical Institute from Iași;
 - „Gheorghe Asachi” Polytechnical Institute of Iași, with the Faculties: Industrial Chemistry, Civil Engineering, Electromechanics and Mechanics.

ESTABLISHMENT OF THE FACULTY OF CIVIL ENGINEERING OF IAȘI

Based on the Decree-Law no. 989 from November 13, 1941, published in „The Official Monitor” no. 270, at the „Gh. Asachi” Polytechnical School from Iași the Faculty of Civil Engineering is established.

In „The Official Monitor”, part I, no. 118 from May 23, 1942, the Faculty of Civil Engineering of Iași’s structural organization is published. The general specialization is that of Civil Engineer and the Faculty had the next positions: six Professors and six Associate Professors for general subjects, four Professors for specialty subjects (Bridges I – wood and masonry, Bridges II – metallic constructions, Railways, Roads) and five Associate Professors for specialty subjects (Drawing for Civil Engineering; Topography, Geodesy and Land Survey; Construction Materials’ Technology; Architecture; Navigations and Land Reclamation). During the next years, other subjects have been added: Civil Engineering Constructions, Geotechnics, Reinforced Concrete, Foundations, and Urbanism. Under this organizational structure, the Faculty acted until the education reform in 1948.

Professor Anton Şesan (1916-1969)

Professor Anton Şesan was born on December 26, 1916, in Carapciu – Storojineţ, a village in Hotin County (now in Republic of Moldova), from a family of intellectuals. He followed the high school in Rădăuţi and then the Polytechnic School from Bucharest.

In 1940 he obtains the Civil Engineer diploma and, in a short time, he became the manager of a construction company. In 1943 he takes the Assistant Professor position in Strength of Materials at the "Gh. Asachi" Polytechnic Institute of Iaşi. In 1945 he becomes Associate Professor in Civil Engineering and, in 1948, Deputy Professor in Structural Statics. In 1951 he is promoted to full Professor in Structural Statics. In his activity he also taught Structural Dynamics and Structural Design in Plastic Domain.



ANTON ŞESAN
1916 - 1969

He was the head of the Structural Statics and Strength of Materials Department, Vice-Dean, Vice-Rector and Ph.D. adviser. Also, he has been the manager of the Constructions Researches Institute (INCERC) Iaşi Branch from 1957 (when this branch have been established) until the end of his life.

Anton Şesan was a great Professor, a real promoter of science and researches, a developer of new fields and techniques in Civil Engineering. He created strong bases for the future of the Faculty of Civil Engineering of Iaşi, and many generations of students, researchers and faculties were powerfully influenced by him.

He introduces the new, at that time, notion of *factorial moments* and a version of Displacement Method, the *Active Moments Method*. He generalizes the Moments Distribution Method in the plastic domain and was a pioneer in mathematical modeling and in computerized structural design. Professor Şesan was a forerunner in the use of probabilistic approach for building safety.

The most important realizations of Professor Anton Şesan are linked with antiseismic protection of Civil Engineering structures. He proposed *Earthquake Engineering* as a topic for students. The theoretical studies he conducted were doubled by experimental researches. Together with a team of faculties and researchers from INCERC he realized three shaking tables (600 KN, 150 KN and 5 KN) that made Iaşi the most important research center in Romania and one of the most important in Eastern Europe.

Professor Anton Şesan published more than 140 scientific papers.

**Department of Structural Mechanics,
Faculty of Civil Engineering of Iaşi**

Professor **Alexandru Negoită** (1916-1998)

Part of the elite of Romanian technical higher education, Professor Alexandru Negoită was a model for many generations of students. He initiated many fundamental and applied sciences research directions.

He was born in Ciurea, a village in Iași County on June 19, 1916. In 1934 he graduates the National High School from Iași and in 1940 he graduates the Faculty of Civil Engineering from the Polytechnic University of Bucharest.

For 12 years he worked for very important building and design companies. Then, for 26 years, he worked in research field, being at one moment the general manager of the Civil Engineering Research Institute.

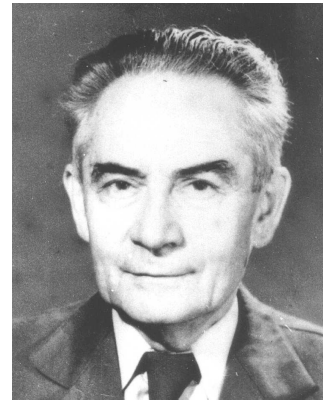
From 1952, Alexandru Negoită becomes Associate Professor and from 1961 Professor in the staff of the Faculty of Civil Engineering from Cluj-Napoca. For a period of time he had been the Dean of that Faculty. From 1971 he moves to Iași, as a Professor at the Faculty of Civil Engineering Iași. A member of the Structural Mechanics Department, Professor Negoită was elected, between 1971 and 1982, the head of department.

Professor Alexandru Negoită taught subjects as: Civil and Industrial Buildings; Strength of Materials; Earthquake Engineering, History of Techniques in Constructions; Theory of Structures. After the 1977 earthquake he convinced the authorities to allow the initiation of Earthquake Engineering as a topic for students in Civil Engineering. He also taught Earthquake Engineering for two years at the Faculty of Civil Engineering from Oran in Algeria.

He published more than 300 scientific papers and participated to more than 200 research projects in Romania and outside. One of his books, "Applications of Earthquake Engineering" was awarded the "Anghel Saligny" prize from the Romanian Academy.

He organized and participated to many scientific meetings where he received high appreciations. Alexandru Negoită was a member of many national and international professional associations. He was the Ph.D. adviser for more than 65 graduate students and was a member of the Romanian Ministry of Education commission for titles and diplomas awards.

In 1997, Professor Alexandru Negoită receives the title of *Doctor Honoris Causa* from the Technical University of Cluj-Napoca.



ALEXANDRU NEGOIȚĂ
1916 - 1998

Professor **Lucian Strat**