

**Report on 4th International Symposium  
‘Transform Methods & Special Functions, Borovets’ 2003’  
(TMSF, Borovets’ 2003)**

**Borovets, Bulgaria, September 15 – 21, 2003**

From 15th to 21st of September 2003, in Borovets, Bulgaria, the first Congress of the recently founded Mathematical Society of South-Eastern Europe (MASSEE) was held.

The idea to have a mathematical society comprising mathematicians from Balkan countries goes back to the early decades of the last century. In September 1934 the first Interbalkan Mathematical Congress took place in Athens. It was decided to start a new journal focused on the region. The first Balkan mathematical journal *Revue Mathématique de l’Union Interbalkanique* appeared in 1936 and in 1938. The second Interbalkan Mathematical Congress took place in September 1937 in Bucharest. During that Congress the Interbalkan Union of Mathematicians was founded. The Second World War and the Cold War years after that were not good for the collaboration between the Balkan countries. The first contacts and discussions to revive the union started in 1956. In September 1966, during the third Congress of Balkan Mathematicians (held again in Bucharest), the statute of the Balkan Mathematical Union (BMU) was adopted and the activities revived. The 70’s were the golden era for UBM. The Fourth Congress (Istanbul 1971), the fifth Congress (Belgrade 1974), several conferences and symposiums, Balkaniads for university students and for young researchers, scientific sessions during the meetings of the Executive Council of UBM, etc. The publication of a new journal named “*Mathematica Balkanica*” was started. It was published by the Union of Mathematicians, Physicists and Astronomers of Yugoslavia and edited by Academician Djuro Kurepa (vol.1, 1971 - vol.6, 1980). In accordance with the decision of the Executive Council

of the BMU (July 1984) in 1987, the National Committee for Mathematics of Bulgaria and the Bulgarian Academy of Sciences started the publication of “*Mathematica Balkanica - New Series*”, edited by Academician Blagovest Sendov. Since then the journal was regularly published with 17 volumes till 2003.

After a period of inactivity for UBM, lasting more then a decade, and responding to a profound desire of the Balkan mathematicians, the Mathematical Societies of the Balkan countries decided to revive the activities of the Balkan Mathematical Union and to establish a new organization: Mathematical Society of South-Eastern Europe (MASSEE). MASSEE is aiming at the continuation of the activities and the traditions of the Balkan Mathematical Union.

At MASSEE Congress it was decided to continue the publication of “*Mathematica Balkanica - New Series*” under the auspices of MASSEE. Due to Academician Sendov’s new engagement as an Ambassador of Bulgaria in Japan, Academician Peter Kenderov was appointed by the Executive Council of MASSEE as the *new Editor-in-Chief*. A *new Editorial Board* is in the process of constituting, enlisting some members of the Scientific Committee of the MASSEE Congress and representatives of the Balkan countries.

In frames of the MASSEE Congress, several accompanying events and specialized minisymposia took place, one of them was our periodic meeting known as “TMSF”:

#### **4th International Symposium**

**‘Transform Methods & Special Functions, Borovets’ 2003’**

**(TMSF, Borovets’ 2003)**

*ORGANIZED BY:*

*Peter Rusev, Ivan Dimovski, Virginia Kiryakova* (Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Bulgaria); *Lyubomir Boyadjiev* (Faculty of Applied Mathematics and Informatics, Technical University - Sofia, Bulgaria); *Stevan Pilipovic* (Institute of Mathematics, University of Novi Sad, Serbia and Monte Negro); *Shyam L. Kalla* (Department of Mathematics & Computer Sciences, Kuwait University, Kuwait)

*TOPICS:*

Integral Transforms, Special Functions, Generalized Functions and Related Topics of PDE with Singularities, Fractional Calculus, Operational Calculus and Algebraic Analysis, Integral and Differential Operators in Univalent Functions Theory, Applications

*PERIODICITY:*

The meeting continued the traditions of the 3 international workshops "Transform Methods & Special Functions" (TMSF), held in Bulgaria as follows: "TMSF, Sofia' 1994" (Bankya, near Sofia, 46 participants from 15 countries); "TMSF, Varna' 1996" (Black Sea' resort "Golden Sands", near Varna, 74 participants from 19 countries); "TMSF, American University in BG' 1999" (town of Blagoevgrad, 47 participants from 16 countries). At "TMSF, Borovets' 2003" we had 40 participants from 13 countries.

*"TMSF" PROCEEDINGS:*

**Vol. 1:** "TMSF, Sofia' 94" (Proc. of 1st Intern. Workshop), SCTP - Singapore, 1995; **Vol. 2:** "TMSF, Varna' 96" (Proc. of 2nd Intern. Workshop), Inst. Math. & Inf. - BAS, Sofia, 1998, ISBN 954-8986-05-1; **Vol. 3:** "TMSF, Varna' 99" (Proc. of 3rd Intern. Workshop), publ. in specialized international journal "FCAA": "Fractional Calculus & Applied Analysis", vol. 2, No-s 4 & 5 (1999), ISSN 1311-0454; **Vol. 4:** "TMSF, Borovets' 2003" (Proc. of 4th Intern. Symposium), publ. as "Mathematica Balkanica (New Series)", vol. 18, No-s 3-4 (2004), ISSN 0205-3217.