

IN MEMORIAM  
TO PROFESSOR ANATOLY A. KILBAS



On June 28, 2010, the contemporary Fractional Calculus lost one of its greatest experts and authors, and the journal “Fractional Calculus and Applied Analysis” lost one of the most active and enthusiastic editors. All of us suddenly lost a great colleague and friend.

On behalf of “FCAA” Editorial Board’s members, most of them - his close friends and collaborators of Anatoly Alexandrovich Kilbas, we sign the following obituary.

**PROFESSOR ANATOLY KILBAS:  
TO THE MEMORY OF THE GREAT SCIENTIST AND THE  
FAITHFUL FRIEND**

Professor Anatoly Alexandrovich Kilbas died at a tragical accident on June 28, 2010. We have lost a brilliant mathematician, a very active scientist, an interesting and talented lecturer, a sincere friend.

Anatoly Alexandrovich Kilbas was born on July 20th, 1948, in Minsk, Belarus. In 1966 he has finished a secondary school in Borisov, Minsk region, and entered at the same year the mathematical department of the Belarusian State University in Minsk.

Anatoly Kilbas studied at the mathematical department of the Belarusian State University from 1966 till 1971. Moreover, all his academic and research career was developed at this university. He left Belarusian State University for a long period only few times.

In 1973 Anatoly Kilbas entered a post-graduate course at the Belarusian State University (scientific adviser – academician Fedor Dmitrievich Gakhov) and in 1975 he defended a PhD thesis (Candidate of Sciences dissertation) entitled “Operators of Potential Type with Power-Logarithmic Kernels and Integral Equations Resolved in Closed Form”. In 1995 he defended the second degree dissertation (Doctor of Sciences) entitled “Operators of Fractional Integration: Asymptotic and Composition Properties and Applications”. In 1997 he was awarded by the professorship at the Chair of the Theory of Functions, and since 2002 he headed this chair.

Professor Kilbas was a worldwide known scientist. His contributions to the theory of integral equations, fractional integro-differentiation, fractional differential equations, integral transforms and special functions are highly estimated by the international mathematical society. He is an author of more than 300 research articles, and 6 monographs published at the leading International Publishing Companies, as Gordon and Breach Science Publishers, Chapman and Hall/CRC Press, Elsevier. The monograph (joint with Stefan Samko and Oleg Marichev): “Fractional Integrals and Derivatives and Some of Their Applications” became a reference book for many experts in fractional analysis and its applications all over the world. His fruitful research cooperation with scientists from Canada, Germany, India, Italy, Japan, Korea, Russia, Spain and USA was realized in numerous works.

Professor Anatoly Kilbas presented his results on international conferences in different countries. He was a member of Organizing Committee and session organizer at many international scientific forums. In 2005 Anatoly

Kilbas was elected a member of the International Advisory Board of the International Society of Analysis, its Applications and Computation. He was the main organizer of successful conferences “Boundary Value Problems, Special Functions and Fractional Calculus” (1996), “Analytical Methods of Analysis and Differential Equations” (AMADE, 1999, 2001, 2003, 2006, 2009) held in Minsk. He was an editor of 14 books of proceedings of conferences, and a member of Editorial Board of well-known international Journals “Integral Transforms and Special Functions”, “Fractional Calculus and Applied Analysis”, “Advances in Applied Mathematical Analysis” and many others.

Professor Kilbas was actively working with young mathematicians either in Belarus or in another countries. 16 of his post-graduate students have successfully defended their PhD Thesis in the period from 1985 to 2010.

Anatoly Kilbas was a real family man. He has always care about his parents. He was a tender husband, an attentive father and the best grandfather in the world. Anatoly liked to be a friend and he was a good friend for many people indeed. It seems that at every country he found friends. The list of these countries coincides with the list of his trips.

Anatoly possessed numerous brilliant human abilities, for instance extremely good memory on scientific results, events and facts, people. Anatoly could declaim the poetry of many of his favorite poets. From time to time he compiled verses by himself. He was a good sportsman, the life and soul of any company.

Anatoly Kilbas was a thankful pupil. During last 30 years he cared about the memory of his teacher academician F.D. Gakhov, hold the weekly research seminar at the Belarusian State University which continues the seminar organized by F.D. Gakhov in 1963. Most of the AMADE Conferences were devoted to the memory of academician Gakhov.

Anatoly had a lot of plans to realize. Books, scientific projects, works of students, new conferences remain unfinished. A special issue of our journal “FCAA”, Vol. 11, No 4 (2008) devoted to his 60th anniversary contains, among other stuff as his CV, publications’ list, friends’ congratulations, also words for his plans for the future ... We invite you to visit the FCAA website, and especially this issue at the link:

[http://www.math.bas.bg/~fcaa/volume11/fcaa114/contfc11\\_4\\_links\\_revised.pdf](http://www.math.bas.bg/~fcaa/volume11/fcaa114/contfc11_4_links_revised.pdf)

We lost an excellent scientist and a man with a brilliant personality. It remains to express deep condolences to his family, to all his colleagues and friends. He will be always remembered by everybody who knew him.