

**LETTER TO THE EDITOR:
CONGRATULATIONS TO VIRGINIA KIRYAKOVA
ON HER 50th ANNIVERSARY**

On March 26, Virginia Kiryakova had her 50th birthday. It gives me a great pleasure to congratulate Prof. Kiryakova with her jubilee she marks this year and send my best wishes for strong health, happiness and success.

An author of many scientific papers and books with strong results and deep content, Prof. Kiryakova became a recognized expert in Fractional Calculus. Her activity last decades is well known to all the people who work in this field. The journal "*Fractional Calculus and Applied Analysis*" she organized and which she heads as Managing Editor, became a big event and a very popular edition.

Besides her own strong results on Generalized Fractional Calculus, this journal is also more than just a strong result. Many professionals and beginners in the field of Fractional Calculus have a feeling of gratitude to the Managing Editor both for the idea itself to organize the journal and for all the big job done in this journal which provides a useful information on growing number of investigations in the field, for the successful efforts to guarantee a high level of the publications therein.

It is a real pleasure for me, as a member of the Editorial Board of "FCAA" to collaborate with Professor Kiryakova, in the journal. Her punctuality and readiness to sacrifice a lot of her time and forces to make excellent issues is easily seen from the e-mail correspondence. Her ability to consider and accept other's opinion and defend her point of view when feeling that she is right, is also impressive.

These days I wish all the best to Virginia and her family. I wish Virginia to be happy and have a strong feeling of satisfaction of everything she does in her life, in particular, of her excellent creature, the "FCAA" Journal, her enthusiasm to which is like the love to a child.

Stefan Samko, MEMBER OF EB OF "FCAA"

CV of Virginia Kiryakova

Asso. Prof. Dr. Virginia Stoyneva Kiryakova (Institute of Mathematics & Informatics - Bulgarian Academy of Sciences) is *Managing Editor of the "FCAA Journal"*. M.Sc. and Ph.D. in Mathematical Analysis from the Sofia University. She has also a honorary position as a Full Prof. at the Math. Division of Istituto per la Ricerca di Base (IRB) in Monteroduni, Italy - a branch of the Institute for Basic Research in Florida, USA.

Main research interests: in the field of Applied Mathematical Analysis (Fractional Calculus, Special Functions, Integral Transforms), with more than 70 papers, published in international and Bulgarian periodicals and cited by foreign authors more than 130 times. Author of the monograph: V. Kiryakova. "*Generalized Fractional Calculus and Applications*", Longman, Harlow, 1994 (co-publ. John Wiley & Sons, USA). Among the other publications are some translations of mathematical books and edited *Proceedings of international meetings*: "Complex Anal. & Applications, Varna'87" (BAS - Sofia, 1989), "Transform Methods & Special Functions, Sofia'94", "Transform Methods & Special Functions, Varna'96", "Transform Methods & Special Functions, AUBG'99" (Proc. 1st, 2nd and 3rd Workshops). Associated to *several international mathematical journals*: - "International J. Appl. Mathematics" (ISSN 1311-1728, Acad. Publ., Sofia, Ed. In Chief); - "Mathematica Balkanica (N.S.)" (ISSN 0205-3217, Bulg. Acad. Sci., Sofia, Edit. Board); - "Math. Sciences Research Journal" (ISSN 1537-5978, Global Publ.Co., MN-USA, Edit. Board); - "J. Concrete and Applicable Mathematics", (Nova Publ. Co., NY-USA, Edit. Board).

Member of: American Mathematical Society, Edinburgh Mathematical Society, International Radiation Physicists Society and other international organizations. *Referee* for MR and ZblMath; *reviewer* for several international mathematical journals, publishers, Ph.D. Theses; guidance of research projects with the Bulg. Ministry of Education and Science. *Invited lectures* at several internat. conferences and *Visiting Professor* in foreign universities (Italy, Belarus, Russia, UK, Japan, Kuwait, Poland, Spain, Yugoslavia, Lebanon, USA, The Netherlands, etc.). Scholarships in Belarus and Scotland.

Social activities: member of the Sofia Town Council (Municipality Council, 1991-1995), secretary of the Sofia Municipality Commission for Education and Science (1991-1995), secretary of the Math. Section of the Union of Scientists in Bulgaria (1989-1995), member of "Association of Bulgarians Studied in Britain", "Lions Club - Sofia Izgrev", etc.

Awards: Prizes at Internat. Math. Olympiads, Academical Prize for Mathematics - Bulgarian Academy of Sciences (1996); Inclusion in "Who is Who in the World", etc; Badge of Honour of the Town of Sofia, etc.

Web-cite: <http://www.math.bas.bg/~virginia>

List of Publications of Virginia Kiryakova

Monograph:

- V. Kiryakova, *"Generalized Fractional Calculus and Applications"*, Longman Sci. & Techn., Harlow - UK, ISBN 0-582-21977-9 (Copubl. by J. Wiley & Sons Inc, USA, ISBN 0-470-23376-1), 1994, 402 p.

Translated and Edited Mathematical Books and Proceedings Editorship of Several International Mathematical Journals

List of Research Papers: more than 70 items

1. On an integral transformation, due to N.Obrechhoff (I.H. Dimovski, V. S. Kiryakova). *Lecture Notes in Math.* **798** (1980), 141-147.
2. Complex inversion formulas for the Obrechhoff transform (I.H. Dimovski, V. S. Kiryakova). *Pliska (Stud. Math. Bulg.)* **4** (1981), 110-116.
3. Relation between the Laplace and Obrechhoff transforms (In Russian) (I.H. Dimovski, V. Kiryakova). In: *Proc. Conf. "Generalized Functions in Math. Physics, Moscow'1980"*, Moscow (1981), 225-231.
4. An explanation of Stokes phenomenon by the method of transmutations (V.S. Kiryakova). In: *Proc. Conf. "Diff. Equations and Appl., Rousse'1981"*, Rousse (1982), 349-353.
5. Convolution and commutant of Gelfond-Leontiev operator of integration (I.H. Dimovski, V.S. Kiryakova). In: *Proc. Conf. "Constr. Function Theory, Varna'1981"*, Sofia (1982), 288-294.
6. Convolution and differential property of Borel-Dzrbasjan transform (I. Dimovski, V. Kiryakova). In: *Proc. Conf. "Complex Anal. and Appl., Varna'81"*, Sofia (1984), 148-156.
7. On the Weyl fractional operator of two dimensions (R.K. Raina, V. Kiryakova). *C. R. Acad. Bulg. Sci.* **36**, No 10 (1983), 1273-1276.
8. An application of Meijer's G -function to Bessel-type operators (V.S. Kiryakova). In: *Proc. Conf. "Constr. Function Theory, Varna'1984"*, Sofia (1984), 457-462.
9. Integral transformations for Bessel-type differential operators via Meijer's G -function (V.S. Kiryakova). In: *Proc. Conf. "Complex Anal. and Appl. to Partial Diff. Equations, Halle'1984"*, Halle (1984), 67-71.

10. Transmutations, convolutions and fractional powers of Bessel-type operators via Meijer G -functions (I.H. Dimovski, V.S. Kiryakova). In: *Proc. Conf. "Complex Anal. and Appl., Varna'1983"*, Sofia (1985), 45-66.
11. On a class of generalized operators of fractional integration (V.S. Kiryakova). In: *Proc. "Jubilee Session Devoted to Acad. Chakalov, Samokov'1986"*, Sofia (1990), 79-87.
12. On operators of fractional integration involving Meijer's G -functions (V.S. Kiryakova). *C. R. Acad. Bulg. Sci.* **39**, No 10 (1986), 25-28.
13. Generalized Poisson transmutations and corresponding representations of hyper-Bessel functions (I.H. Dimovski, V.S. Kiryakova). *C. R. Acad. Bulg. Sci.* **39**, No 10 (1986), 29-32.
14. New integral representations of the generalized hypergeometric functions (V.S. Kiryakova). *C. R. Acad. Bulg. Sci.* **39**, No 12 (1986), 33-36.
15. An application of the generalized operators of fractional integration to dual integral equations involving Meijer's G -function (V.S. Kiryakova). *Pliska (Stud. Math. Bulg.)* **10** (1989), 93-107.
16. *Generalized Operators of Fractional Integration and Differentiation and Applications* (V. Kiryakova). *Ph.D. Thesis*, Sofia Univ., Sofia (1986).
17. Applications of the generalized Poisson transformation for solving hyper-Bessel differential equations (In Bulgarian) (V. Kiryakova). *Godishnik VUZ. Appl. Math.* **22**, No 4 (1986), 129-140.
18. Generalized Poisson representations of hypergeometric functions ${}_pF_q$, $p < q$ using fractional integrals (I.H. Dimovski, V.S. Kiryakova). *Math. and Educ. Math.* (1987), 205-212.
19. Generalized fractional derivative representations of hypergeometric functions ${}_pF_q$ with $p < q$ (V.S. Kiryakova). *Math. and Educ. Math.* (1987), 228-235.
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21. Representations of the solutions of hyper-Bessel differential equations via Meijer's G -function (V.S. Kiryakova, S. Spirova). In: *Proc. Conf. "Complex Anal. and Appl., Varna'1987"*, Sofia (1989), 284-297.
22. Convolutions of Erdélyi-Kober fractional integrals (V.S. Kiryakova). In: *Proc. Conf. "Complex Anal. and Appl., Varna'1987"*, Sofia (1989),

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23. A generalized fractional calculus and integral transforms (V.S. Kiryakova). In: *Proc. Conf. "GFCA, Dubrovnik'1987"*, Plenum Publ. Co., New York (1988), 205-217.
 24. A new differential formula for Meijer's G -function (V.S. Kiryakova). *C. R. Acad. Bulg. Sci.* **41**, No 5 (1988), 27-30.
 25. Abelian theorems for the Obrechhoff integral transform (D. Nikolic-Despotovic, V.S. Kiryakova). *Review Research Fac. Sci., Math. Ser., Univ. Novi Sad* **18**, No 2 (1988), 45-60.
 26. Multiple Erdélyi-Kober fractional differintegrals and their use in univalent, starlike and convex function theory (V.S. Kiryakova). *Annuaire Univ. Sofia Fac. Math. Mech. (Annual of the University of Sofia)* **81** (1987), 261-283.
 27. Fractional integration operators involving Fox's $H_{m,m}^{m,0}$ -function (V.S. Kiryakova). *C. R. Acad. Bulg. Sci.* **41**, No 11 (1988), 11-14.
 28. Generalized $H_{m,m}^{m,0}$ -function fractional integration operators in some classes of analytic functions (V.S. Kiryakova). *Mat. Vesnik (Bulletin Mathematique, Beograd)* **40**, No 3-4 (1988), 259-266.
 29. An H -function generalized fractional calculus based upon compositions of Erdélyi-Kober operators in L_p (S.L. Kalla, V.S. Kiryakova). *Math. Japonicae* **35**, No 6 (1990), 1151-1171.
 30. A generalized fractional calculus dealing with H -functions (S.L. Kalla, V.S. Kiryakova). In: *Proc. Conf. "Fractional Calculus and Its Appl., Tokyo'1989"*, Nihon Univ., Tokyo (1990), 62-69.
 31. Explicit solution to a generalized (multiple) Abel integral equation via H -function (V. Kiryakova). In: *Enlarged Summaries of Conf. "Equadiff 7, Praha'1989"*, Praha (1989), 153-155.
 32. Poisson and Rodrigues type fractional differintegral formulas for the generalized hypergeometric functions ${}_pF_q$ (V.S. Kiryakova). *Atti Sem. Mat. Fis. Univ. Modena* **39** (1990), 311-322.
 33. Some expansions related to a family of generalized radiation integrals (S.L. Kalla, L. Galue, V.S. Kiryakova). *Math. Balkanica (N.S.)* **5**, No 3 (1991), 190-202.
 34. On a relation between the two-dimensional H -transforms in terms of Erdélyi-Kober operators (R.K. Saxena, V.S. Kiryakova). *Math. Balkanica (N.S.)* **6**, No 2 (1992), 133-140.
 35. Generalized (multiple) Riemann-Liouville fractional differintegrals and their use in univalent function theory (V.S. Kiryakova, H.M. Srivas-

- tava). In: *"Analysis, Geometry and Groups: a Riemann Legacy Volume"*, Hadronic Press, Inc., Florida, USA - ISBN 0-911767-59-2 (1993), Part 1, 191-226.
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 41. Further results on a family of generalized radiation integrals (L. Galue, V. Kiryakova). *Radiation Physics & Chem.* **43**, No 6 (1994), 573-579.
 42. Explicit solution of the nonhomogeneous hyper-Bessel differential equation (V. Kiryakova, A. McBride). *C. R. Acad. Bulg. Sci.* **46**, No 5 (1993), 23-26.
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 49. Solutions of Erdélyi-Kober fractional integral, differential and differintegral equations of second kind (V. Kiryakova, B. Al-Saqabi). *C. R. Acad. Bulg. Sci.* **50**, No 1 (1997), 27-30.
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 51. Multiple Dzrbashjan-Gelfond-Leontiev fractional differintegrals (V. Kiryakova). In: *"Recent Advances in Appl. Mathematics'96" (Proc. Intern. Workshop, Kuwait Univ.)*, Kuwait (1996), 281-294. . 52. Explicit solutions of fractional integral and differential equations, involving Erdélyi-Kober operators (B. Al-Saqabi, V. Kiryakova). *Appl. Mathematics & Computation* **95** (1997), 1-13.
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 54. Explicit solutions to hyper-Bessel integral equations of second kind (B. Al-Saqabi, V. Kiryakova). *Computers & Mathematics with Appl-s* **37**, No 1 (1999), 75-86.
 55. Distortion and characterization theorems for starlike and convex functions related to generalized fractional calculus (M. Saigo, V. Kiryakova, S. Owa). In: *Proc. "Symposium on Univalent Functions, Kyoto Univ., March'97"*, Kyoto (1997), 25-46.
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59. Some criteria for univalence of analytic functions involving generalized fractional calculus (V. Kiryakova, M. Saigo, H.M. Srivastava). *Fractional Calculus & Appl. Analysis* **1**, No 1 (1998), 79-104.
60. The Obrechhoff integral transform: Properties and relation to a generalized fractional calculus (I. Dimovski, V. Kiryakova). *Numerical Funct. Analysis and Optimization* **21**, No 1-2 (2000), 121-144.
61. Representations and computational procedures for special functions via generalized fractional calculus (V. Kiryakova). In: *Proc. "Internat. Conf. on Scientific Computations'99"*, LAU, Beirut (1999), 33-42.
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67. Multiindex Mittag-Leffler fonctions, calcul fractionnaire généralisé et transformations intégrals de Laplace: Applications possibles en automatique? (V. Kiryakova, S. Grozdev, G. Ivanov). In: *"Proc. 1ère Conférence Internat. Francophone d'Automatique" ("CIFA'2000")*, Lille (2000), 951-956.
68. Meijer's G -function: Bulgarian traces for its use in special functions, integral transforms and fractional calculus. In: *"Math. and Educ. Math. '2002"*, Union of Bulg. Mathematicians, Sofia (2002), 25-34.
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70. Solutions of fractional multi-order integral and differential equations using a Poisson-type transform (I. Ali, V. Kiryakova, S.L. Kalla). *J. Math. Anal. and Appl.* **269** (2002), 172-199.