

fractional Calculus  
& Applied Analysis

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**TO THE 65th ANNIVERSARY  
OF PROF. H.M. SRIVASTAVA**

Prof. Dr. **Hari M. Srivastava**, Dept. Mathematics & Statistics, University of Victoria, B.C. - Canada, is **born on 5 July 1940**. The happy occasion of his **65th Jubilee** was officially celebrated by an “**International Symposium on Analytic Function Theory, Fractional Calculus and Their Applications**”, that took place at the University of Victoria, August 22 - 27, 2005, see Announcement in “FCAA”, vol. **8**, No 1 (2005), p.71, and:

[http://www.math.bas.bg/fcaa/volume8/fcaa81/IntSymp\\_Srivastava65.pdf](http://www.math.bas.bg/fcaa/volume8/fcaa81/IntSymp_Srivastava65.pdf)

[http://www.diogenes.bg/fcaa/volume8/fcaa81/IntSymp\\_Srivastava65.pdf](http://www.diogenes.bg/fcaa/volume8/fcaa81/IntSymp_Srivastava65.pdf)

Dear Prof. Srivastava,  
Dear friend and honorable colleague!

On behalf of the Editorial Board of our “FCAA” Journal, whose member you are since its foundation in 1998, I like to wish you many happy returns to this day and to continue in the same enthusiastic way your tireless serving in favour of the mathematical community and various scientific activities!

It is my pleasure to say you “Happy 65th Birthday!”. I like to pass you and your family, and especially to your wife Rekha, my personal and my family’s best wishes and congratulations.

VIRGINIA KIRYAKOVA,  
MANAGING EDITOR OF “FCAA” JOURNAL

<http://www.math.uvic.ca/faculty/harimsri/index.html>

### Professor Hari M. Srivastava

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- Honorary Professor, La Universidad del Zulia, Maracaibo, Venezuela
- Honorary Chair Professor, Chung Yuan Christian University, Chung-Li, Taiwan, Republic of China
- Chartered Mathematician (U.K.)
- Honorary Foreign Member, The Royal Academy of Sciences, Literature and Fine Arts of Belgium
- Fellow, The Royal Astronomical Society (London, U.K.)
- Fellow, The National Academy of Sciences of India
- Fellow, The Institute of Mathematics and Its Applications (U.K.)
- Honorary Fellow, The Vijnana Parishad (Science Academy) of India
- Fellow, The American Association for the Advancement of Science (U.S.A.)
- Honorary Academician and Correspondent Member (Foreign Fellow), La Academia Canaria de Ciencias (Spain)
- Foreign Fellow, Forum d'Analystes (India)
- Honorary Academician and Foreign Member, The Macedonian Academy of Sciences and Arts (Skopje, Republic of Macedonia)
- Honorary Member, The Research Board of Advisors, American Biographical Institute (U.S.A.)
- President, The Jangjeon Mathematical Society (Hapcheon [Kyungshang], Republic of Korea)
- Vice President, The Calcutta Mathematical Society (Kolkata, India)
- Chartered Scientist (U.K.)
- Editor, Honorary Editor, Associate Editor, or Editorial Board Member of **over 100** international scientific research journals
- Referee and Editorial Consultant for several Asian, European, and American Journals **and** Publishers
- Recipient of numerous Honors, Awards, Prizes, and Grants [including (among the latest) the **NSERC 25-Year Award** in Canada and the **Nishiwaki Prize** in Japan in the calendar year 2004, and the **Honorary Doctor of Science** degree awarded by Chung Yuan Christian University in Taiwan in the calendar year 2006]
- Distinguished Visiting (Research) Professor at numerous Academic Institutions throughout the world
- External Examiner for **Ph. D. and D. Sc. Theses** submitted to Universities around the world (**Especially** in North America, Europe, and Asia)

**Current Research Interests:**

- Real and Complex Analysis
- Fractional Calculus and Its Applications
- Integral Equations and Transforms
- Higher Transcendental Functions and Their Applications
- $q$ -Series and  $q$ -Polynomials
- Analytic Number Theory

**I. Most Recent Publications: For list of them, see at:**

<http://www.math.uvic.ca/faculty/harimsri/>

**II. Books and Monographs**

- A. A. Kilbas, H. M. Srivastava and J. J. Trujillo, **Theory and Applications of Fractional Differential Equations** (xvi+523 pp.), North-Holland Mathematical Studies, Vol. 204, Elsevier (North-Holland) Science Publishers, Amsterdam, 2006 (ISBN-10: 0-444-51832-0).
- H. M. Srivastava and Junesang Choi, **Series Associated with the Zeta and Related Functions** (x+388 pp.), Kluwer Academic Publishers, Dordrecht, Boston, and London, 2001 (ISBN: 0-7923-7054-6).
- Giuseppe Dattoli, Hari M. Srivastava, and Clemente Cesarano (Editors), **Advanced Special Functions and Integration Methods** (Proceedings of the Melfi School on Advanced Topics in Mathematics and Physics; Melfi, Italy, June 18-23, 2000) (376 pp.), Aracne Editrice, Rome, 2001 (ISBN: 88-7999-298-8).
- K. S. Lakshmi, R. Parvatham, and H. M. Srivastava (Editors), **Analysis and Its Applications** (Proceedings of the International Conference on Analysis and Its Applications; Chennai, India, December 6-9, 2000) (xxiv+281 pp.), Allied Publishers Limited, New Delhi, Mumbai, Calcutta, and Chennai, 2001 (ISBN: 81-764-179-4).
- Decio Cocolicchio, Giuseppe Dattoli, and Hari M. Srivastava (Editors), **Advanced Special Functions and Applications** (Proceedings of the Melfi School on Advanced Topics in Mathematics and Physics; Melfi, Italy, May 9-12, 1999) (336 pp.), Aracne Editrice, Rome, 2000 (ISBN: 88-7999-265-X).
- Themistocles M. Rassias and Hari M. Srivastava (Editors), **Analytic and Geometric Inequalities and Applications** (viii+378 pp.), Kluwer Series on Mathematics and Its Applications, Vol. 478, Kluwer Academic Publishers, Dordrecht, Boston, and London, 1999 (ISBN: 0-7923-5690-X).
- H. M. Srivastava and Themistocles M. Rassias (Editors), **Analysis, Geometry and Groups: A Riemann Legacy Volume (Part I)** (viii+336 pp.), Hadronic Press, Palm Harbor, Florida, 1993 (ISBN: 0-911767-59-2 and 0-911767-85-9).
- H. M. Srivastava and Themistocles M. Rassias (Editors), **Analysis, Geometry and Groups: A Riemann Legacy Volume (Part II)** (viii+376 pp.), Hadronic Press, Palm Harbor, Florida, 1993 (ISBN: 0-911767-59-2 and 0-911767-85-9).
- Themistocles M. Rassias, H. M. Srivastava, and A. Yanushauskas (Editors), **Topics in Polynomials of One and Several Variables and Their Applications: A Legacy of P.L. Chebyshev** (x+638 pp.), World Scientific

- Publishing Company, Singapore, New Jersey, London, and Hong Kong, 1993 (ISBN: 981-02-0614-3).
- H. M. Srivastava and Shigeyoshi Owa (Editors), *Current Topics in Analytic Function Theory* (xiv+456 pp.). World Scientific Publishing Company, Singapore, New Jersey, London, and Hong Kong, 1992 (ISBN: 981-02-0932-9).
  - H. M. Srivastava and R. G. Buschman, *Theory and Applications of Convolution Integral Equations* (xx+240 pp.), Kluwer Series on Mathematics and Its Applications, Vol. 79, Kluwer Academic Publishers, Dordrecht, Boston, and London, 1992 (ISBN: 0-7923-1891-9).
  - H. M. Srivastava and Shigeyoshi Owa (Editors), *Univalent Functions, Fractional Calculus, and Their Applications* (404 pp.). A Halsted Press Book (Ellis Horwood Limited, Chichester), John Wiley & Sons, New York, Chichester, Brisbane, and Toronto, 1989 (ISBN: 0-470-21630-1 and 0-7458-0701-1).
  - H. M. Srivastava and P. W. Karlsson, *Multiple Gaussian Hypergeometric Series* (425 pp.). A Halsted Press Book (Ellis Horwood Limited, Chichester), John Wiley & Sons, New York, Chichester, Brisbane, and Toronto, 1985 (ISBN: 0-470-20100-2 and 0-85312-602-X).
  - H. M. Srivastava and H. L. Manocha, *A Treatise on Generating Functions* (569 pp.). A Halsted Press Book (Ellis Horwood Limited, Chichester), John Wiley & Sons, New York, Chichester, Brisbane, and Toronto, 1984 (ISBN: 0-470-20010-3 and 0-85312-508-2).
  - H. M. Srivastava, K. C. Gupta, and S. P. Goyal, *The H-Functions of One and Two Variables with Applications* (x+306 pp.). South Asian Publishers, New Delhi and Madras, 1982.
  - H. M. Srivastava and B. R. K. Kashyap, *Special Functions in Queuing Theory and Related Stochastic Processes* (x+308 pp.). Academic Press, New York and London, 1982 (ISBN: 0-12-660650-1).
  - H. M. Srivastava and R. G. Buschman, *Convolution Integral Equations with Special Function Kernels* (164 pp.). A Halsted Press Book (Wiley Eastern Limited, New Delhi), John Wiley & Sons, New York, London, Sydney, and Toronto, 1977 (ISBN: 0-470-99050-3 and 0-85226-834-3).

#### I. Book Chapters

- H. M. Srivastava, *Some Fractional Differintegral Operators and Their Applications to Differential Equations*, in **Contemporary Differential Equations and Applications** (Yeol Je Cho, Jong Kyu Kim, and Ki Sik Ha, Editors), Nova Science Publishers, Hauppauge, New York, 2004, pp. 67-79.
- H. M. Srivastava, *Distortion Inequalities for Analytic and Univalent Functions Associated with Certain Fractional Calculus and Other Linear Operators*, in **Analytic and Geometric Inequalities and Applications** (Th. M. Rassias and H. M. Srivastava, Editors), Kluwer Academic Publishers, Dordrecht, Boston, and London, 1999, pp. 349-374.
- H. M. Srivastava, *Some Families of Generating Functions and Polynomial Expansions Involving Systems in One and More Complex Variables*, in **Complex Analysis in Several Variables** (Th. M. Rassias, Editor), Hadronic Press, Palm Harbor, Florida, 1999, pp. 149-183.

- H. M. Srivastava, *Certain Operational Techniques and Their Applications in Analytic and Univalent Function Theory*, in **Mathematical Analysis and Applications** (Th. M. Rassias, Editor), Hadronic Press, Palm Harbor, Florida, 1999, pp. 251-270.
- Th. M. Rassias and H. M. Srivastava, *Some Classes of Multilinear and Multilateral Generating Functions*, in **Nonlinear Mathematical Analysis and Applications** (Th. M. Rassias, Editor), Hadronic Press, Palm Harbor, Florida, 1998, pp. 193-221.
- Th. M. Rassias and H. M. Srivastava, *Some Bounds for Orthogonal Polynomials and Other Families of Special Functions*, in **Approximation Theory and Applications** (Th. M. Rassias, Editor), Hadronic Press, Palm Harbor, Florida, 1998, pp. 177-193.
- W. Bühling and H. M. Srivastava, *Analytic Continuation of the Generalized Hypergeometric Series Near Unit Argument with Emphasis on the Zero-Balanced Series*, in **Approximation Theory and Applications** (Th. M. Rassias, Editor), Hadronic Press, Palm Harbor, Florida, 1998, pp. 17-35.
- H. M. Srivastava, *Certain Conjectures and Theorems Involving Fractional Derivatives of Analytic and Univalent Functions*, in **Analysis and Topology** (Căbiria Andreian Cazacu, Olli E. Lehto, and Themistocles M. Rassias, Editors), World Scientific Publishing Company, Singapore, New Jersey, London, and Hong Kong, 1998, pp. 653-676.
- H. M. Srivastava, *Some Families of Elliptic Integrals Arising in Radiation Field and Other Problems*, in **New Frontiers in Algebra, Groups and Geometries. Part III: New Frontiers in Functional Analysis** (Grigorios T. Tsagas, Editor), Hadronic Press, Palm Harbor, Florida, 1996, pp. 329-387.
- Y. C. Kim and H. M. Srivastava, *The Hardy Space of a Certain Series and Its Applications*, in **The Mathematical Legacy of Hanno Rund (1925-1993)** (J. Vladimir Kadeisvili, Editor), Hadronic Press, Palm Harbor, Florida, 1993, pp. 37-52.
- V. S. Kiryakova and H. M. Srivastava, *Generalized Multiple Riemann-Liouville Fractional Differintegrals and Their Applications in Univalent Function Theory*, in **Analysis, Geometry and Groups: A Riemann Legacy Volume** (H. M. Srivastava and Themistocles M. Rassias, Editors), Hadronic Press, Palm Harbor, Florida, 1993, pp. 191-226.
- H. M. Srivastava, *A Certain Family of Generating Functions for Classical Orthogonal Polynomials*, in **Topics in Polynomials of One and Several Variables and Their Applications: A Legacy of P. L. Chebyshev** (Themistocles M. Rassias, H. M. Srivastava, and A. Yanushauskas, Editors), World Scientific Publishing Company, Singapore, New Jersey, London, and Hong Kong, 1993, pp. 535-561.
- Th. M. Rassias and H. M. Srivastava, *Some Recent Advances in the Theory of the Zeros and Critical Points of a Polynomial*, in **Topics in Polynomials of One and Several Variables and Their Applications: A Legacy of P. L. Chebyshev** (Themistocles M. Rassias, H. M. Srivastava, and A. Yanushauskas, Editors), World Scientific Publishing Company, Singapore, New Jersey, London, and Hong Kong, 1993, pp. 463-481.
- H. M. Srivastava, *Some Applications of Fractional Calculus Involving the Gamma and Related Functions*, in **Recent Advances in Fractional Calculus** (R. N. Kalia, Editor), Global Publishing Company, Sauk Rapids, Minnesota, 1993, pp. 179-202.

- H. M. Srivastava, S. B. Yakubovich, and Yu. F. Luchko, *New Families of Leibniz Type Rules for Fractional Calculus and Their Integral Analogues*, in **Recent Advances in Fractional Calculus** (R. N. Kalia, Editor), Global Publishing Company, Sauk Rapids, Minnesota, 1993, pp. 248-291.

#### IV. Encyclopedia Chapters

- **Queueing Theory**. In *Encyclopedia of Physical Science and Technology*, Vol. **13**, Academic Press, New York, 1992, pp. 793-807.  
**Revised and updated version** in *Encyclopedia of Physical Science and Technology*, Third Edition, Vol. **13**, Academic Press, New York, 2002, pp. 481-495.
- **Catalan Constant**. In *Encyclopedia of Mathematics*, Supplement **III**, Kluwer Academic Publishers, Dordrecht, Boston, and London, 2002, pp. 95-96.

#### V. Papers in Conference Proceedings, see at <http://www.math.uvic.ca/faculty/harimsri/>

#### VI. Forewords to Books and Journals

- Foreword to "*Index Transforms*" (by S. B. Yakubovich), World Scientific Publishing Company, Singapore, New Jersey, London, and Hong Kong, 1996, pp. v-x.
- Foreword to *The International Journal of Mathematical and Statistical Sciences* (**Special Issue on Generalized Hypergeometric Functions and Their Applications**) (H. M. Srivastava, Guest Editor), Vol. **5** (1996), No. 1, pp. 5-6.
- Foreword to *The Journal of Computational and Applied Mathematics* (**Special Issue on Higher Transcendental Functions and Their Applications**) (H. M. Srivastava, Guest Editor), Vol. **118** (2000), Nos. 1-2, pp. ix-x.
- Preface to *Applied Mathematics and Computation* (**Special Issue on Advanced Special Functions and Related Topics in Differential Equations**) [Third Melfi Workshop] (Proceedings of the Melfi School on Advanced Topics in Mathematics and Physics; Melfi, Italy; June 24-29, 2001) (H. M. Srivastava, G. Dattoli, and P. E. Ricci, Guest Editors), Vol. **141** (2003), No. 1, pp. 1-2.
- Foreword to "*A Text Book on Groups: With Solved Examples*" (by A. N. Srivastava), Campus Books International, New Delhi, 2003, pp. iii-v

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**For other details of Professor H.M. Srivastava's CV, see the material, dedicated to his 60<sup>th</sup> Anniversary, in: "FCAA", vol. 3, No 3 (2000), pp. 319-325.**