

CURRICULUM VITAE

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BIOGRAPHICAL SKETCH

V.I. Bogachev was born in Moscow in 1961. In 1983 he graduated from Moscow State University with honours degree and after three years of post-graduate studies got the Ph.D. in 1986.

In 1989 he won the first prize at the annual Moscow State University competition for the best research performed by scientists under 35. For the researches conducted in 1982–1990 V.I. Bogachev was awarded the medal and the prize of the Academy of Sciences of the USSR. In 1991 V.I. Bogachev got the title of Doctor of Sciences and became the youngest doctor of sciences in the probability theory of that time.

Since 1986 V.I. Bogachev has worked at the Department of Mechanics and Mathematics of Moscow State University. The main fields of research are nonlinear functional analysis, probability theory, and stochastic analysis. He is a well-known expert in measure theory, probability

theory, and the Malliavin calculus. V.I. Bogachev has above 180 scientific publications including 10 monographs. In the 80s V.I. Bogachev proved Pitcher's conjecture on distributions of diffusion processes stated in 1961, and solved three problems from measure theory posed by Aronszajn in the 70s. Jointly with M. Röckner, he answered a question posed by K. Ito and P. Malliavin on the supports of Gaussian capacities and proved Shigekawa's conjecture on absolute continuity of invariant measures of the diffusions on the Wiener space. V. Bogachev obtained jointly with N. Krylov and M. Röckner an important regularity result for invariant measures of finite dimensional diffusion processes. In a joint paper with S. Albeverio and M. Röckner, he proved Varadhan's conjecture on the uniqueness of invariant measures for diffusions with non-smooth drifts. Extending well-known results by Holley, Stroock, and Fritz, it has been shown in a joint work of Bogachev with M. Röckner and F.-Y. Wang that for a broad class of spin systems on two-dimensional lattices every invariant distribution is Gibbsian. In his monograph "Gaussian Measures", V.I. Bogachev gave the first detailed and systematic exposition of the theory of Gaussian measures and obtained many new results. The two volumes monograph "Measure Theory" by V.I. Bogachev gives an account of modern measure theory including the classical theory and a lot of recent results. His monograph "Differentiable measures and the Malliavin calculus" is concerned with a rapidly developing area of infinite-dimensional analysis.

The results of Bogachev's investigations have been presented at many international conferences, including the International Congress of Mathematicians in Zürich, and in lectures at many universities all over the world, including such well-known scientific centers as Cambridge University, Université Paris-VI, Institut für Angewandte Mathematik (Bonn), Bielefeld University, Humboldt University (Berlin), Heidelberg University, Göttingen University, Scuola Normale Superiore (Pisa), Universities Rome-I and Rome-II, Imperial College (London), Warwick University, Strasbourg University, University of Copenhagen, Mittag-Leffler Institute (Stockholm), University of California (Berkeley), University of Minnesota (Minneapolis), MIT (Boston), University of Alberta (Edmonton), University of British Columbia (Vancouver), Technion (Haifa), University of New South Wales (Sydney), Australian National University, Melbourne University, Tokyo University, Kyoto University, Osaka University, Beijing Normal University, and others. V.I. Bogachev was an invited speaker at the XXIVth International Conference on Stochastic Processes and Their Applications in Chile, Stochastic Semester at Berkeley University, the Oberwolfach conference on Dirichlet forms, the International Congress of Mathematicians Satellite Conference on Stochastic Analysis in Peking, and other international conferences. In 2000, V.I. Bogachev received the Award of the Japan Society of Promotion of Science.

V.I. Bogachev has been awarded many competitive grants of the national and international levels, in particular, by the International Science Foundation, the INTAS, the German Science Foundation, the Russian President Grant, the Australian Research Council, and the Russian Foundation of Basic Research.

V.I. Bogachev has considerable teaching experience. He has been teaching intensively since 1983 at the Department of Mechanics and Mathematics of the Moscow State University and the Department of Informatics and Applied Mathematics at St. Tikhon's University (to all levels of students). He also gave courses of lectures at several European universities and was employed at the University of Minnesota in Minneapolis. Twelve Ph.D. dissertations have been written under supervision of V.I. Bogachev, three his former PhD students got the second degree of Doctors of Science (Habilitation). At present he is supervising 9 post-graduates working on their Ph.D.'s and 19 graduate students.

Bogachev's citation index: > 1200 (MathSciNet), $H=19$.

List of publications of V.I. Bogachev

1. Bogachev V.I. Negligible sets and differentiable measures in Banach spaces, *Moscow Univ. Math. Bull.* 37:2 (1982), 54–59.
2. Bogachev V.I. Negligible sets in locally convex spaces, *Math. Notes* 36 (1984), 519–526.
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5. Bogachev V.I. Regularity of stable distributions in infinite-dimensional spaces, *Theory Probab. Appl.* 30 (1985), 201–202.
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