Curriculum Vitae

Personal Information

1.   Name:<u>   Ilya Spitkovsky   </u> Date<u>   April 5, 2014   </u>

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          Home Address:<u>   117 Windsor Way, Williamsburg, VA, 23188   </u>

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2.   Position:<u>   Full Professor   Mathematics   </u>
                           Rank   Department

Education

3. Academic degrees, institutions and dates

Doctor of Science in Physics and Mathematics (Habilitation Degree)	Institute of Mathematics, Georgian Academy of Sciences	1987
Candidate of Science in Physics and Mathematics (equivalent to PhD)	University of Belorussia, Minsk	1978
M.S. with honors in Mathematics and Education	University of Odessa, Ukraine	1975

Academic positions

1990–Present	Department of Mathematics, College of William and Mary, Williamsburg **Professor** (August 1993 – Present) **Associate Professor** (August 1992 – August 1993) **Visiting Professor** (August 1990 – July 1992) NYUAD **Visiting Professor** (2013-14 academic year) Instituto Superior Tecnico, Lisbon, Portugal **Visiting Scientist** (Spring 2009) University of Pisa, Italy **Visiting Professor** (Summer 2004) Katholieke Universiteit Leuven, Belgium **Visiting Scientist** (April – May 2003) Technische Universität Darmstadt, Germany **Visiting C3 Professor** (Summer 1992)
1986–1989	Department of Integral Equations and Boundary Value Problems, Marine Hydrophysical Institute, Ukrainian Academy of Sciences **Leading Research Fellow** (October 1988 – November 1989) **Senior Research Fellow** (February 1986 – September 1988)
1978–1986	Department of Integral Equations and Mathematical Simulating, Economics Institute, Ukrainian Academy of Sciences **Senior Research Fellow** (December 1980 – February 1986) **Junior Research Fellow** (November 1978 – December 1980)
1976–1989	Department of Mathematics, University of Odessa, Ukraine **Professor** (September 1987 – July 1989) **Associate Professor** (September 1980 – July 1982) **Assistant Professor** (February 1976 – July 1978)

Editorial Positions

Integral Equations and Operator Theory	Editorial Board member (2004 – present)
Operator Theory: Advances and Applications	Associate Editor (2009 – present)
Operators and Matrices	Editorial Board member (2006 – present)
International Journal for Information Systems Sciences	Associate Editor (2008 – present)
Armenian Journal of Mathematics	Editorial Board Member (2008 – present)
International Journal of Mathematics and Mathematical Sciences	Editorial Board Member (2009 – present)

Honors, Prizes and Awards

February 2013	Plumeri Award for Faculty Excellence
May 2010	Simon Teaching Prize
May 1993	Alumni Fellow Teaching Award
September 1984	Certificate **Senior Scientist** in Mathematical Analysis, awarded by the Academy of Sciences of the USSR
April 1984	Ukrainian Academy of Sciences Award "For the best research in mathematics among young scientists"
1974–1975	Lenin scholarship

Courses taught

Calculus, linear algebra, foundations of mathematics, analytic geometry, differential equations, real analysis, complex analysis, general topology, functional analysis, operator theory, linear programming, C^*-algebras, boundary value problems, spectral theory of Toeplitz operators, mathematics of finance, introduction to computational algebraic geometry.

Graduate and Undergraduate Advising

Ph.D. students

1988	Sergei Yatsko	University of Odessa, Ukraine
1990	Peter Tishin	University of Odessa, Ukraine
1990	Aziz Tashbaev	University of Odessa, Ukraine

Post Doctorate Advising

Spring 1996	Torsten Ehrhardt	(Technical University of Chemnitz, Germany)
2002–03 AY	Josue Ramirez	(CINVESTAV, Mexico)
2009-10 AY	J. Loreto Hernández	(Universidad Autónoma de México)

Honors projects

2005-06 AY	David Rose	Results concerning the Aluthge transform
2006–07 AY	Abraham Isgur	Factorization of some almost periodic matrix functions
2012–13 AY	Tyler Moran	On almost normal matrices

Research Experience for Undergraduates (REU)

Sigal Gottlieb, Inequalities involving the numerical radius (Summer 1991, advised jointly with Charlie Johnson),

Mark Gelfand, Almost periodic factorization: Applicability of the division algorithm (Summer 1993),

Dennis Keeler, The numerical range of 3×3 matrices (Summer 1994, advised jointly with Leiba Rodman),

Sudheer Shukla, Equality of higher numerical ranges of matrices and a conjecture of Kippenhahn on hermitian pencils (Summer 1995, advised jointly with Chi Kwong Li),

Darryl Yong, Almost periodic factorization of certain block triangular matrix functions (Summer 1995),

Daniel Quint, New cases of almost periodic factorization of triangular matrix functions (Summer 1996, advised jointly with Leiba Rodman),

Ronald Walker, Almost periodic factorization of block triangular matrix functions revisited (Summer 1997),

Laren Caston and Milena Savova, On eigenvalues and boundary curvature of the numerical range (Summer 1999, advised jointly with Nahum Zobin),

Nicholas McCarthy and David Ogilvie, Birkhoff's theorem and convex hulls of Coxeter groups (Summer 1999, advised jointly with Nahum Zobin),

Walter Lin, Factorization of some triangular almost periodic matrix functions (1999-2000 AY),

Chris Hillar, Positive eigenvalues and two-letter generalized words (Summer 2000, advised jointly with Charlie Johnson),

Ethan Brown, On matrices with elliptical numerical ranges and on flat portions on the boundary of the numerical range (Summer 2002 and 2002-03 AY),

Justin Droba and David Rose, On some properties of the Aluthge transform (Summer 2005),

Anastasia Boryssenko and Bich Hoai, On power dominance of positive semi definite matrices (Summer 2006, advised jointly with Charlie Johnson),

Hakan Seyalioglu, Cones invariant under families of matrices (2006-07 AY, advised jointly with Leiba Rodman),

Ashwin Rastogi, On comparison of the division algorithm and Portuguese transformation approach to explicit factorization of certain matrix functions (2007-08 AY, advised jointly with Leiba Rodman),

Eduard Einstein, The ratio field of values (Summer 2009, advised jointly with Charlie Johnson),

Jeffrey Eldred, Numerical ranges of companion matrices (Spring 2010–Summer 2011),

Daniel Corey and Ryan Kirk, The product field of values (Summer 2011, advised jointly with Charlie Johnson),

Timothy Leake, Multiply generated points of the numerical range (Summer 2012),

Weston Barger, Spectral behavior of skew hermitian matrices under hermitian perturbations (Summer 2012, advised jointly with Charlie Johnson).

Parth Palihar, Continuous selections of the inverse field of values generating function (Summer 2013, advised jointly with Brian Lins).

Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS)

Tyler Moran, Numerical ranges of almost normal matrices (Summer 2012),

Zach Price, On the spectra of some cyclic matrices (Summer 2012, advised jointly with Charlie Johnson).

The results of work with undergraduates are published in [71], [84], [88], [92], [93], [98], [100], [105], [112], [114], [117], [127], [129], [139], [140], [141], [144], [150], [152], [157], [159], [168], [176], [177], [179], [183], [184], [186] of joint publications with them.

Fellowships and Grants

Grants awarded by outside agencies

2013–18	NSF Grant DMS-1331021 "Computational and Statistical theory and techniques in the study of large data sets" $ 880,000 Senior Personnel
2012–16	EU Grant 318910 "Asymptotics of Operator Semigroups" Scientist in charge on the William & Mary side
2005–09	NSF Grant DMS-0456625 "Wiener-Hopf Factorization and its Applications" $ 153,000
2000–04	NSF Grant DMS-9988579 "Problems in Operator and Matrix Theory" $ 201,489
1999	NRC COBASE Grant "Toeplitz Operators with Matrix Semi Almost Periodic Symbols and their Applications in Diffraction Theory $ 2,750
1998–2000	NSF Grant DMS-9800704 " Almost Periodic and Multivariable Periodic Matrix Functions: Extensions, Factorizations, Applications $ 120,522
1997–99	NATO Grant CRG-950332 "Toeplitz Operators and Algebras of Convolution Type Operators" (renewal) $ 7,400
1995–97	NATO Grant CRG-950332 "Toeplitz Operators and Algebras of Convolution Type Operators" $ 6,234
1994–97	NSF Grant DMS-9401848 "Topics in Operator Theory" $ 67,500
1991–93	NSF Grant DMS-9101143 "Matrices, Operators and Factorization" $ 37,550

Grants received from William and Mary

2013	Faculty summer research grant
2008	Faculty Research Assignment (taken during 2008-09 academic year)
2005	Faculty summer research grant
2001	Faculty Research Assignment (taken during 2002-03 academic year)
2000	Faculty summer research grant
1998	Faculty summer research grant
1995	Faculty Research Assignment
1994	Faculty summer research grant
1993	Faculty summer research grant.

Research

Refereed research papers

1. The reconstruction of a unitary operator from two of its diagonal blocks, *Mat. Issled.* **8** (1973), no. 4 (30), 187–193. **MR 50 # 2997**.

2. Stability of partial indices of the Riemann boundary value problem with a strictly nondegenerate matrix, *Dokl. Akad. Nauk SSSR* **218** (1974), 46–49. **MR 52 # 767** (English translation in *Soviet Math. Dokl.* **15** (1974), no. 5, 1267–1271).

3. The Riemann boundary value problem with a Hermitian matrix, *Dokl. Akad. Nauk SSSR* **221** (1975), no. 6, 1280–1283. (with *A.M.Nikolaichuk*). **MR 53 # 8444** (English translation in *Soviet Math. Dokl.* (1975), no. 6, 533–536).

4. Factorization of Hermitian matrix-valued functions, and its applications to boundary value problems, *Ukrain. Mat. Zh.* **27** (1975), no. 6, 767–779 (with *A.M.Nikolaichuk*). **MR 53 # 13591** (English translation in *Ukrainian Math. J.* **30** (1975)).

5. The problem of the factorization of measurable matrix-valued functions, *Dokl. Akad. Nauk SSSR* **227** (1976), no. 3, 576–579. **MR 54 # 10017** (English translation in *Soviet. Math. Dokl.* **17** (1976), no. 2, 481–485).

6. The partial indices of continuous matrix-valued functions, *Dokl. Akad.Nauk SSSR* **229** (1976), no. 5, 1059–1062. **MR 55 # 13278** (English translation in *Soviet Math. Dokl.* **17** (1976), no. 4, 1155–1159).

7. The multipliers that do not influence factorizability, *Dokl. Akad. Nauk SSSR* **231** (1976), no. 6, 1300–1303. **MR 55 # 6232** (English translation in *Soviet Math. Dokl.* **17** (1976), no. 6, 1733–1738. .

8. The factorization of matrix-valued functions on the unit circle, *Dokl. Akad. Nauk SSSR* **234** (1977), no. 2, 287–290 (with *M.G.Krein*). **MR 56 # 1118** (English translation in *Soviet Math. Dokl.* **18** (1977), no. 3, 641–645).

9. The factorization of matrix valued functions whose Hausdorff set lies inside an angle, *Soobshch. Akad Nauk Gruzin. SSR* **86** (1977), no. 3, 561–564. **MR 57 # 6456**.

10. Factorization of α-sectorial matrix valued functions on the unit circle, *Operators in Banach spaces. Mat. Issled.* **47** (1978), 41–63 (with *M.G.Krein*). **MR 81d:47017**.

11. The block structure of *J*-unitary operators, *Teor. Funktsii, Funktsional. Anal. i Prilozhen.* **30** (1978), 129–138. **MR 80a:47056**.

12. On the factorability of measurable matrix-valued functions, *Dokl. Akad. Nauk SSSR* **240** (1978), no. 3, 541–544. **MR 58 # 12489** (English translation in *Soviet Math. Dokl.* **19** (1978), no. 3, 647–651).

13. On the theory of the generalized Riemann boundary value problem in the classes L_p, *Ukrain. Mat. Zh.* **31** (1979), no. 1, 63–73. **MR 81e:30053** (English translation in *Ukrainian Math. J.* **31** (1979), 47–57).

14. The block structure of J-unitary operators. II, *Teor. Funktsii, Funktsional. Anal. i Prilozhen.* **31** (1979), 150–157. **MR 80h:47046**.

15. On the problem of forming of water resources economical estimate, in: *Economics of the World Ocean* (1979), Kiev, Economical Institute, Ukrainian Academy of Sciences (with *G.S.Litvinchuk, A.N.Bukreev*).

16. Multipliers that do not effect factorizability, *Mat. Zametki,* **27** (1980), no. 2, 291–299. **MR 82g:42008** (English translation in *Math. Notes* **27** (1980), 145–149).

17. Sharp estimates of the defect numbers of a generalized Riemann boundary value problem and some problems on approximation by rational functions with partially fixed poles, *Uspehi Mat. Nauk* **36** (1981), no. 4 (with *G.S.Litvinchuk*).

18. Some estimates for partial indices of measurable matrix-valued functions, *Mat. Sb.* **111 (153)** (1980), no. 2, 227–248. **MR 81k:45004** (English translation in *Math. USSR Sbornik* **39** (1981), no. 2, 207–226).

19. Block operators and related questions of the theory of factorization of matrix-valued functions, *Dokl. Akad. Nauk SSSR* **254** (1980), no. 4, 816–820. **MR 81k:47024** (English translation in *Soviet Math. Dokl.* **22** (1980), no. 2, 471–475).

20. Exact estimates of defect numbers of the generalized Riemann boundary value problem, *Dokl. Akad. Nauk SSSR* **255** (1980), no. 5, 1042–1046 (with *G.S.Litvinchuk*). **MR 82b:30051** (English translation in *Soviet Math. Dokl.* **22** (1980), no. 3, 781–785).

21. Factorization of measurable matrix-valued functions and related problems in the theory of systems of singular integral equations and the vector Riemann boundary value problem. I, *Differentsial'nye Uravnenia* **17** (1981), no. 4, 697–709. **MR 82j:30067** (English translation in *Differential equations* **17** (1981), 477–485).

22. On the algebra generated by two projections, *Dokl. Akad. Nauk Ukrain. SSR, Ser. A,* **8** (1981), 10–13 (with *N.L.Vasilevsky*). **MR 82k:47063**.

23. An effective method of factorization , *Ukrain. Mat. Zh.* **34** (1982), no. 1, 15–19 (with *V.N.Gavdzinsky*). **MR 83g:30049** (English translation in *Ukrainian Math. J.* **34** (1982), 13–16).

24. Sharp estimates of the defect numbers of a generalized Riemann boundary value problem, factorization of Hermitian matrix functions, and some problems on approximation of meromorphic functions, *Mat. Sb. (N.S.)* **117 (159)** (1982), no. 2, 196–215 (with *G.S.Litvinchuk*). **MR 83g:30050** (English translation in *Math. USSR Sbornik* **45** (1983), no. 2, 205–224).

25. Factorization of measurable matrix-valued functions and related problems in the theory of systems of singular integral equations and the vector Riemann boundary value problem. II, *Differentsial'nye Uravnenia* **18** (1982), no.3, 487–498. **MR 84j:30077** (English translation in *Differential Equations* **18** (1982), 373–382).

26. A criterion for the subnormalcy of operators in Hilbert space, *Funktsional. Anal. i Prilozhen.* **16** (1982), no. 2, 86–87. **MR 83i:47033** (English translation in *Functional Analysis and its Applications* **16** (1982), 148–150.

27. Some generalizations of Szegö's first limit theorem, *Anal. Math.* **9** (1983), no. 1, 23–41 (with *M.G.Krein*). **MR 84i:15017**.

28. On the Noethericity of some singular integral operators with matrix coefficients of class SAP, and systems of convolution equations on a finite interval associated with them, *Dokl. Akad. Nauk SSSR* **269** (1983), no. 3, 531–535 (with *Yu.I.Karlovich*). **MR 85d:47053** (English translation in *Soviet Math. Dokl.* **27** (1983), no. 2, 358–363).

29. On the application of some classes of integro-functional equations to the economical-ecological systems simulation, in: *Applications of mathematical methods in economical-ecological researches* (1983), Kiev, Economical Institute, Ukrainian Academy of Sciences (with *V.K.Bulitko, A.A.Karelin*).

30. On one model of the association structured by the parameter, the same edition (with *Yu.D.Latushkin*).

31. Factorization of certain classes of semi-almost-periodic matrix functions and its applications to systems of equations of convolution type, *Izv. Vyssh. Uchebn. Zaved. Mat.* **4** (1983), 88–94. **MR 85h:45009** (English translation in *Soviet Math. – Iz. VUZ* **27** (1983), 107–115).

32. Factorization of matrix functions belonging the classes $\tilde{A}_n(p)$ and TL, *Ukrain. Mat. Zh.* **35** (1983), no.4, 455–460. **MR 84k:30045** (English translation in *Ukrainian Math. J.* **35** (1983), 383–388).

33. Block-Toeplitz matrices and associated properties of a Gaussian model on the half axis, *Teoret. Mat. Fiz.* **63** (1985), no. 1, 154–160 (with *A.L.Sakhnovich*). **MR 87a:82065** (English translation in *Theoretical & Mathematical Physics*).

34. Factorization of almost periodic matrix functions and Fredholm theory of Toeplitz operators with semi almost periodic matrix symbols, in *Linear and Complex Analysis problem book: 199 research problems, Lecture Notes in Math.* **1043**, Springer–Verlag (1984), 279–282 (problem 5.9) (with *Yu.I.Karlovich*).

35. Some problems connected with the Szegö limit theorems, the same edition, 285–288 (problem 5.11) (with *M.G.Krein*).

36. The Riemann boundary value problem whose matrix coefficient admits infinite partial indices, *Izv. Vyssh. Uchebn. Zaved. Mat.* **6** (1985), 45–53 (with *S.I.Yatsko*). **MR 87b:30068** (English translation in *Soviet Mathematics (Iz. VUZ)* **29** (1985), 55–65).

37. Szegö limit theorems in the case of a matrix locally sectorial symbol, *Dokl. Akad. Nauk SSSR* **284** (1985), no.1, 61–65. **MR 87b:47027** (English translation in *Soviet Math. Dokl.* **32** (1985), no. 2, 393–396).

38. Factorization of triangular matrix functions with the diagonal elements from class SAP_Γ , *Memoirs of the anniversary seminar on boundary value problems devoted to F.Gahov* (1985), Minsk, Byelorussian State University, 188–192.

39. On the theory of a boundary value problem of Nikolai Vekua, *Trudy Tbiliss. Univ. Mat. Mekh. Astronom.* **19-20** (1986), 163–188 (with *Yu.D.Latushkin, G.S.Litvinchuk*). **MR 88f:30068**.

40. Factorization of almost periodic matrices and the Noether theory of systems of Wiener-Hopf equations with semi-almost-periodic presymbols. *Reports of the extended sessions of a seminar of the I.N.Vekua Institute of Applied Mathematics* **1**, no. 1, 106–109, Tbilis. Gos.Univ., Tbilisi, 1985 (with *Yu.I.Karlovich, G.S.Litvinchuk*). See **MR 87i:00014**.

41. Vector Riemann boundary value problem in the discontinuous case, The same edition, 191–194.

42. Generalized factorization of matrix-functions and the Riemann boundary value problem with infinite partial indices, *Dokl. Akad. Nauk SSSR* **286** (1986), no. 3, 559–562. **MR 88d:30052** (English translation in *Soviet Math. Dokl.* **33** (1986), no. 1, 145–149).

43. On the theory of systems of equations of convolution type with semi-almost-periodic symbols in spaces of Bessel potentials, *Dokl. Akad. Nauk SSSR* **286** (1986), no. 4, 799–803 (with *Yu.I.Karlovich*). **MR 87f:46066** (English translation in *Soviet Math. Dokl.* **33** (1986), no. 1, 145–149).

44. Asymptotic behavior of the determinants of block Toeplitz matrices in the locally sectorial case, *Zap. Nauch. sem. Leningrad. Otdel. Mat. Inst. Steklov (LOMI)* **149** (1986), 76–92. **MR 87m:47069** (English translation in *Journal of Soviet Mathematics* **42**, no. 2 (1988), 1591–1603.

45. Singular integral operators with a piecewise sectorial matrix symbol, *Soobshch. Akad. Nauk Gruzin. SSR* **121** (1986), no. 2, 249–252. **MR 87k:45009**.

46. Partial indices of triangular matrices of order higher then two, *Ukrain. Mat. Zh.* **39** (1987), no. 6, 751–756 (with *P.M.Tishin*). **MR 89a:15014** (English translation in *Ukrainian Math. J.* **39** (1987), 611–615).

47. The vector Riemann boundary value problem with infinite deficient numbers and the factorization of matrix-functions connected with it, *Mat. Sb. (N.S.)* **135 (177)** (1988), no. 4, 533–550. **MR 89j:30058** (English translation in *Math. USSR - Sb.* **63** (1989), no. 2, 521–538).

48. Factorization of new classes of almost-periodic matrix functions, *Reports of the extended sessions of a seminar of the I.N.Vekua Institute of Applied Mathematics* **3**, no. 1, 170–173 (with *P.M.Tishin*), Tbilis.Gos.Univ., Tbilisi, 1989.

49. Factorization of measurable matrix-functions in classes $L_{p,\rho}$ with power weight, *Izv. Vyssh. Uchebn. Zaved. Mat.* **5** (1988), 62–70. **MR 89k:30050** (English translation in *Soviet Math. (Iz. VUZ)* **32** (1988), no. 5, 78–88).

50. On the efficient factorization of matrix-functions, *Izv. Vyssh. Uchebn. Zaved. Mat.* **4** (1989), 17–24 (with *A.M.Tashbaev*). **MR 90i: 30071** (English translation in *Soviet Math. (Iz. VUZ)* **33** (1989), 85–93).

51. Factorization of almost-periodic matrix-functions and Noether theory of certain classes of convolution type equations, *Izv. akad. Nauk SSSR, Ser. Mat.* **53** (1989), 276–308 (with *Yu.I.Karlovich*). **MR 90 f:47034** (English translation in *Mathematics of the USSR Izvestiya* **34** (1990), no. 2, 281–316).

52. On the factorization of almost-periodic matrix-functions, *Mat. Zametki* **45** (1989), no. 6, 74–82. **MR 90 k:47033** (English translation in *Math. Notes* **45** (1989), no. 5–6, 482–488).

53. Factorization of Hermitian matrix-functions and classification of shifts in a space with indefinite metric, *Ukrain. Mat. Zh.* **41** (1989), no. 10, 1388–1391. **MR 90 k:47036**. (English translation in *Ukrain. Math. J.* (1989), 1195–1197).

54. Factorization of piecewise constant matrix functions with 3 points of discontinuity in $L_{p,\rho}$ classes and its applications, *Dokl. Akad. Nauk SSSR* **307** (1989), no. 2, 291–296 (with *A.M.Tashbaev*). **MR 90 k:47057** (English translation in *Soviet Math. Dokl.* **40** (1990), no. 1, 80–85).

55. Toeplitz operators with piecewise quasisectorial symbols, *Bull. London Math. Soc.* **22** (1990), 281–286 (with *A.Böttcher, B.Silbermann*). **MR 90 m:47042**.

56. A Gohberg-Krupnik-Sarason symbol calculus for algebras of Toeplitz, Hankel, Cauchy, and Carleman operators, *Operator Theory: Advances and Applications* **48** (1990), 189–234 (with *A.Böttcher, S.Roch, B.Silbermann*). **MR 93m 47029**.

57. Toeplitz operators with PQC symbols on weighted Hardy spaces, *Journal of Functional Analysis* **97** (1991), 194–214 (with *A.Böttcher*). **MR 92 k:47046**.

58. Factorization of certain piecewise constant matrix functions and its applications, *Mathematische Nachrichten* **151** (1991), 241–261 (with *A.M.Tashbaev*). **MR 92i:47061**.

59. Spectral assignment of Hilbert space operators, *Houston Journal of Mathematics* **17** (1991), no. 4, 501–523 (with *L.Gurvits, L.Rodman*). **MR 93c:47004**.

60. Singular integral operators with PC symbols on the spaces with general weights, *Journal of Functional Analysis* **105** (1992), no. 1, 129–143. **MR 93d:47057**.

61. Linear maps preserving regional eigenvalue location, *Linear and Multilinear Algebra* **32** (1992), 253–264 (with *Ch.Johnson, C.K.Li, S.Pierce, L.Rodman*). **MR 94i:15008**.

62. Wiener-Hopf integral operators with PC symbols on spaces with Muckenhoupt weight, *Revista Matemática Iberoamericana* **9** (1993), no. 2, 257–279 (with *A.Böttcher*). **MR 94e:45004**.

63. On a theorem of Rooney concerning the spectrum of the singular integral operator, *Zeitschrift für Analysis und ihre Anwendungen* **12** (1993), 93–96 (with *A.Böttcher*). **MR 94h:47093**.

64. The Carathéodory–Toeplitz problem for almost periodic functions, *Journal of Functional Analysis* **114** (1993), 281–293 (with *H.J.Woerdeman*). **MR 94f:47020**.

65. On convolution equations with semi-almost periodic symbols on a finite interval, *Integral Equations and Operator Theory* **16** (1993), 530–538 (with *A.B.Kuijper*). **MR 94c:47041**.

66. Factorization of operators with angularly constrained spectra, *Operator Theory: Advances and Applications* **62** (1993), 125–143 (with *Ch.R.Johnson*). **MR 95e:47005**.

67. Generalized Abel integral operators on the spaces with Rooney weights, *Zeitschrift für Analysis und ihre Anwendungen* **12** (1993), no. 4, 655–661 (with *F.Penzel*). **MR 95e:45003**.

68. Banach algebras of singular integral operators with piecewise continuous coefficients. General contour and weight, *Integral Equations and Operator Theory* **17** (1993), no. 3, 322–337 (with *I.Gohberg and N.Krupnik*). **MR 94f:47057**.

69. Toeplitz operators with semi-almost periodic symbols on spaces with Muckenhoupt weight, *Integral Equations and Operator Theory* **18** (1994), 261–276 (with *A.Böttcher, Yu.Karlovich*). **MR 95e:47034**.

70. Pseudodifferential operators with heavy spectrum, *Integral Equations and Operator Theory* **19** (1994), 251–269 (with *A.Böttcher*). **MR 95d:47067**.

71. Inequalities involving the numerical radius, *Linear and Multilinear Algebra* **37** (1994), 13–24 (with *Ch.R.Johnson, S.Gottlieb*). **MR 95k:15037**.

72. Boundary value problems for functions analytic on multiply connected domains on spaces with a general weight, *Operator Theory: Advances and Applications* (1994), 350–360 (with *D. Kurtz and Yu. Latushkin*). **MR 96c:30038**.

73. Spectral assignment problems, *Linear and Complex Analysis Problem Book 3, Part I. Lecture Notes in Mathematics* **1573** (1994), 223–225 (with *L.Rodman*).

74. Once more on algebras generated by two projections, *Linear Algebra and Its Applications* **208/209** (1994), 377–395. **MR 95e:46071**.

75. (Semi-)Fredholmness of convolution operators on the spaces of Bessel potentials, *Operator Theory: Advances and Applications* **71** (1994), 122–152 (with *Yu. Karlovich*). **MR 95h:47034**.

76. Factorization of almost periodic matrix functions, *Journal of Mathematical Analysis and Applications* **193** (1995), 209–232 (with *Yu. Karlovich*). **MR 96m:47047**.

77. Almost periodic factorization: An analogue of Chebotarev's algorithm *Contemporary Math.* **189** (1995), 327–352 (with *Yu. Karlovich*). **MR 96h:47024**.

78. Norms of the singular integral operator with Cauchy kernel along certain contours, *Integral Equations and Operator Theory* **24** (1996), 68–80 (with *I. Feldman, N. Krupnik*). **MR 96j:47046**.

79. Sampling and interpolating for a lacunary spectrum, *Proceedings of the Royal Society of Edinburgh,* **126A** (1996), 77–87 (with Yu. Lyubarski). **MR 97b:41004**.

80. Banach algebras generated by N idempotents and applications, *Operator Theory: Advances and Applications* **90** (1996), 19–54 (with *A. Böttcher, I. Gohberg, Yu. Karlovich, N. Krupnik, S. Roch, and B. Silbermann*). **MR 97h:46078** (featured review).

81. Semi-Fredholm properties of certain singular integral operators, *Operator Theory: Advances and Applications* **90** (1996), 264–287 (with *Yu. Karlovich*). **MR 97k:47046**.

82. Positive extensions of matrix functions of two variables with support in an infinite band, *C. R. Acad. Sci. Paris* **323**, no. 8 (1996), 859–863 (with *M. Bakonyi, L. Rodman and H. Woerdeman*). **MR 97i:47023**.

83. Spectral factorization of measurable rectangular matrix functions and the vector-valued Riemann problem, *Revista Matemática Iberoamericana* **12**, no. 3 (1996), 669–696 (with *M. Rakowski*) **MR 98a:15030**.

84. The numerical range of 3×3 matrices, *Linear Algebra and Applications* **252** (1997), 115–139 (with *D. Keeler, L. Rodman*). **MR 97k:15062**.

85. On normal solvability of the Riemann problem with singular coefficient, *Proceedings of the AMS* **125** (1997), 815–826 (with *M.Rakowski*). **MR 97e:47026**.

86. Riemann boundary value problem in the spaces with singular weight, *Russian Acad. Sci. Dokl. Math.* **353** (1997), no. 6, 717–719 (with *F.Soria, K.Kazarian*). **MR 98j:30046**.

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231. Analysis and optimization of the interaction in the "fleet-port" system, *Scientific Report* (1982), Economics and Ecology of the World Ocean Branch of the Marine Hydrophysical Institute, Ukrainian Academy of Sciences (with *G.A.Besfamilny*).

232. Mathematical models of economical-ecological processes, Manuscript no. 5505–86, deposited at VINITI 07/28/86, 93 pp. (with *V.K.Bulitko, Yu.D.Latushkin*).

Other publications

233. Factorization of measurable matrix functions and its applications to boundary value problems for analytic functions, *Candidates dissertation* (1978), 160 pp., Byelorussian State University, Minsk.

234. Noethericity criterion for block-triangular operators and problems of the theory of matrix function factorization, Manuscript no. 2543-81, deposited at VINITI 05/28/81, 23 pp. Annotation in *Sibirsky Matem. Zh.* **23** (1982), no. 1.

235. Factorization of matrix functions and its applications, *Doctoral dissertation* (1987), 300 pp., Mathematical Institute, Georgian Academy of Sciences, Tbilisi.

236. Application of differential equations in some natural science problems, *Methodical Report* (1988), 25 pp. (with *A.N.Kvitko*), Odessa State Pedagogical Institute.

237. Factorization of some piecewise constant matrix functions and its applications, Manuscript no. 4726-B88, deposited at VINITI 06/15/88, 35 pp. (with *A.M.Tashbaev*).

238. Matrix Riemann-Hilbert boundary value problem in the problems of isothermal and thermal gas gliding, Manuscript no. 580-B89, deposited at VINITI 01/24/89, 3–42 (with *A.V.Latyshev*).

239. Generalized Abel integral operators on the spaces with Rooney weights, *Preprint 1514, Techn. Hochsch. Darmstadt, FB Mathematik* (1992), 7 pp. (with *F. Penzel*).

240. Pseudodifferential operators with heavy spectrum Preprint 246/7, Technische Universität. Chemnitz (1993), 19 pp. (with *A.Böttcher*).

241. Singular integral operators on composed curves, *Preprint, Technische Universität Chemnitz-Zwickau* (1996), 78 pp. (with *C. Bishop, A. Böttcher, and Yu. Karlovich*).

242. On a new algorithm for almost periodic factorization, *Preprint 12/96, Instituto Superior Técnico, Departamento de Matemática* (1996), 21 pp. (with *M. A. Bastos, Yu. Karlovich and P. Tishin*).

243. Almost periodic factorization of block triangular matrix functions with a singular constant term in their off-diagonal block, *Technical Report 97-1, University of Washington, Department of Applied Mathematics* (1997), 47 pp. (with *D. Yong*).

244. On totally real non-compact manifolds globally foliated by analytic discs, *Preprint 97-08, Technische Universität Bergakademie Freiberg* (1997), 17 pp. (with *E. Wegert and G. Khimchiachvili*).

245. Almost periodic factorization of block triangular matrix functions revisited, *Preprint 28/98, Instituto Superior Técnico, Departamento de Matemática* (1998), 35 pp. (with *Yu. Karlovich and R. Walker*).

246. Two papers on inverse problems for the partial indices of matrix functions, *Preprint 98-34, Technische Universität Chemnitz, Fakultät für Mathematik* (1998), 41 pp. (with *A. Böttcher and S. M. Grudsky*).

247. Factorization of piecewise constant matrix functions and systems of linear differential equations, *Preprint 1999-048, MSRI*, 59 pp. (with *T. Ehrhardt*).

248. Toeplitz operators with semi-almost periodic matrix symbols on Hardy spaces, *Preprint # 276, Departamento de Matemáticas, CINVESTAV del I.P.N.* (2000), 23 pp. (with *A. Böttcher and Yu. Karlovich*).

249. Introduction. Special issue dedicated to Antonio Avantaggiati on the occasion of his 70th birthday, *Acta Appl. Math.* **65** (2001), Nos. 1–3, 1–7 (with *G. Bruno and A. Pankov*).

250. My Gohberg encounters, *Israel Gohberg and Friends. On the Occasion of his 80th Birthday*, Birkhäuser (2008), 321–322.

251. Drazin inversion in the von Neumann algebra generated by two orthogonal projections, *Preprint 2009–02, Technische Universität Chemnitz* (2009), 11 pp. (with *A. Böttcher*).

252. Short biography of Shmuel Friedland for his special LAA volume, *Linear Algebra and Applications* **431** (2009), 2277–2284 (with *A. Berman, C. Krattenthaler, S. M. Ramp and F. Zhang*).

253. The XIXth International Workshop on Operator Theory and its Applications, *Operator Theory: Advances and Applications* **202**, Birkhäuser–Verlag, Basel-Boston, 2010, ix–xi (with *J. A. Ball, V. Bolotnikov, J. W. Helton and L. Rodman*).

254. Preface and Introduction to Convolution Equations and Singular Integral Operators, *Operator Theory: Advances and Applications* **206**, Birkhäuser–Verlag, Basel-Boston, 2010, vii–xxii (with *L. Lerer and V. Olshevsky*).

Public presentations (from 1988)

1988

January	21st Voronezh winter mathematical school, USSR
February	Conference on bounded value problems devoted to the memory of F.Gahov , Odessa, USSR (plenary talk)
June	All-Union Conference on approximate solving of integral equations, Pushchino, USSR
August	International Conference on Operator Theory: Advances and Applications, Calgary, Alberta, Canada (plenary talk)
September	All-Union Conference on Integral Equations and Mathematical Analysis, Teberda, USSR
October	Technical University, Chemnitz, and Leipzig University, Germany (colloquium talks) , 13th All-Union school on the Operator Theory in Function Spaces, Kuibyshev, USSR

1989

January	22nd Voronezh winter mathematical school, USSR
February	2nd Conference on bounded value problems devoted to the memory of F.Gahov, Odessa, USSR
March	All-Union Conference on Complex Analysis and its applications, Chernogolovka, USSR (plenary talk)
May	Mathematical Institute, Polish Academy of Sciences, Krakow, Poland (series of lectures),
October	International seminar on Schur Analysis, Leipzig, Germany
December	Vienna University, Austria

1990

April	Conference on Function Spaces, South Illinois University, Edwardsville (plenary talk) College of William and Mary, Williamsburg, VA
May	City College, City University of New York
October	University of Maryland, College Park
November	2nd SIAM Conference on Linear Algebra in Signals, Systems & Control, San Francisco, CA

1991

January	Brigham Young University, Provo, Utah Joint Mathematics Meeting of AMS, MAA, SIAM, San-Francisco, CA 7th Annual South-Eastern Analysis Meeting, University of North Carolina at Charlotte
February	Howard University, Washington, DC

March	West Virginia University, Morgantown, WV
	University of Toronto, Canada
April	University of Oklahoma, Norman
May	Carleton University, Ottawa, Canada
	Canadian Operator Symposium, University of Montreal, Canada
	Great Plains Operator Theory Symposium, Texas A&M University,
	College Station, TX
September	4th SIAM Conference on Applied Linear Algebra, University of Minnesota, MN,
November	Virginia Polytechnic Institute and State University, Blacksburg

1992
March	8th Annual South-Eastern Analysis Meeting, University of Tennessee, Knoxville
May	Great Plains Operator Theory Symposium, University of Iowa, Iowa City
	Instituto Superior Tecnico and Universidade de Lisboa,
	Lisbon, Portugal
June	Chemnitz Technical University, Germany
July	Institute for Applied Analysis and Stochastics, Berlin, Germany
	Techniche Hochschule, Darmstadt, Germany
	First European Congress of Mathematics, Paris, France
	Workshop on Matrix Theory, University of Bielefeld, Germany
August	2nd Conference of the International Linear Algebra Society, Lisbon, Portugal
	Workshop on Numerical Ranges and Numerical Radii, College of William and Mary
September	Wabash Modern Analysis Conference, Indianapolis, IA (plenary talk)
	Toeplitz and Wiener-Hopf Operators Conference, University of California,
	Santa Cruz, CA

1993
March	Old Dominion Operator Theory and Analysis Conference,
	University of Richmond, VA
	9th Annual South-Eastern Analysis Meeting, Memphis State University, TN
April	881st Meeting of the AMS, Howard University, Washington, D.C.
October	Northeastern Operator Algebra/Operator Theory Meeting
	West Chester University, PA
	Functional Analysis on the Eve of the Twenty-first Century, Rutgers University,
	New Brunswick, NJ

1994
January	International Conference on Harmonic Analysis and Operator Theory
	Caracas, Venezuela (plenary talk)
	International Meeting on Singular Integral and Pseudo-Differential Operators
	and their Applications, Oberwolfach, Germany
March	891st Meeting of the AMS, Kansas State University

	SUNY at Buffalo, Buffalo, NY
April	Third Old Dominion Operator Theory and Analysis Conference, University of Richmond, VA
May	Second Conference on Function Spaces, South Illinois University, Edwardsville
	Banach International Mathematical Center, Warsaw, Poland
	Chemnitz Technical University, Germany
	Mining Academy of Freiberg , Germany
June	The Interaction between Functional Analysis, Harmonic Analysis, and Probability, University of Missouri at Columbia
	18th Symposium on Real Analysis, University of Virginia, Charlottesville
July	Instituto Superior Tecnico, Lisbon, Portugal
August	2nd Workshop on "Numerical ranges and numerical radii", University of Coimbra, Portugal
October	The legacy of Norbert Wiener: A centennial symposium, MIT, Cambridge, MA
November	896th Meeting of the AMS, University of Richmond, VA
	Universidad Autonoma, Madrid, Spain
December	International Conference on Operator Theory for Complex and Hypercomplex Analysis, Mexico City, Mexico

1995	
March	German-Israeli Workshop on Linear One-Dimensional Singular Integral Operators, Tel Aviv, Israel
	Bar-Ilan University, Ramat Gan, Israel
April	Conference on Mathematical Analysis and Automatic Control, University of Alabama, Tuscaloosa, AL
May	Instituto Superior Tecnico, Lisbon, Portugal
	University of Algarve, Faro, Portugal
June	NSF-CBMS Conference on Approximation Dynamics with Applications to Numerical Analysis, University of Missouri, Columbia, MO
August	International Workshop on Operator Theory and Applications, University of Regensburg, Germany
October	Wabash Modern Analysis Seminar, Crawfordsville, IN
	Indiana University, Bloomington, IN

1996	
March	Minisymposium on Systems of Singular Integral Equations on Composed Curves, Technische Universität Chemnitz-Zwickau, Germany
	Hagen Universität, Hagen, Germany
	12th Annual South-Eastern Analysis Meeting, University of Richmond, VA
May	Vrije Universiteit, Amsterdam, the Netherlands
	Delft Universitet of Technology, Delft, the Netherlands

	Technische Hochshule, Darmstadt, Germany
	Great Plains Operator Theory Symposium, Arizona State University, Tempe, AZ
June	International Workshop on Operator Theory and Applications,
	Indiana University, Bloomington, IN
August	6th Conference of the International Linear Algebra Society,
	Chemnitz, Germany
October	University of Maryland, College Park
December	Conference on Modern Banach Space Theory, Kent State University, OH

1997	
January	918th Joint Meeting of the AMS, MAA and SIAM, San Diego, CA
March	International Conference "Mathematics Today and Tomorrow",
	University of Central Florida, Orlando
	XIII South Eastern Analysis Meeting, University of Florida, Gainesville
May	Workshop on Matrix and Group Theory, Universidade de Coimbra, Portugal
	Instituto Superior Tecnico, Lisbon, Portugal
	Universidade de Lisboa, Portugal
June	First International Congress of the ISAAC (International Society for Analysis,
	its Applications and Computation), University of Delaware, Newark

1998	
May	International Conference "Fourier Analysis and Applications",
	Kuwait University, Kuwait
	Universita degli Studi di Roma "La Sapienza", Italy (series of lectures)
	Third Conference on Function Spaces, South Illinois University, Edwardsville
June	University of Namur, Belgium (series of lectures)
	Fourth Workshop on Numerical Ranges and Numerical Radii,
	University of Wisconsin - Madison
	7th Conference of the International Linear Algebra Society (ILAS)
	University of Wisconsin - Madison
July	International Workshop on Operator Theory and Applications
	University of Groningen, the Netherlands
August	International Congress of Mathematicians, Berlin, Germany
November	Virginia Operator Theory and Complex Analysis Meeting,
	University of Richmond (two plenary talks)

1999	
January	University of Toronto, Canada
March	940th Meeting of the AMS, University of Florida, Gainesville
	International Conference on Recent Advances in Analytic
	and Numerical Treatment of Operator Equations, Klaffenbach, Germany
May	15th Annual South-Eastern Analysis Meeting, Vanderbilt University, Nashville TN

2000	
January	Joint Mathematics Meeting of AMS, MAA, SIAM, Washington, D.C.
March	XVI South Eastern Analysis Meeting, Charlottesville, VA
May	University of Erlangen, Germany
	Academy of Czech Republic, Prague
June	International Workshop on Operator Theory and Applications, Bordeux, France
	5th International Workshop on the Numerical Ranges, Nafplio, Greece
September	International Workshop on Operator Theory and Applications
	Summer School on Factorization and Integrable Systems
	University of Algarve, Faro, Portugal
December	North-South Analysis seminar at CINVESTAV, Mexico City, Mexico

2001	
February	Matrix Theory Seminar, University of Coimbra
March	XVII South Eastern Analysis Meeting, University of Georgia, Athens, GA
April	International Conference on Toeplitz Matrices in Honor of Bernd Silbermann, Pobershau/Erzegbirge, Germany
June	University of Algarve, Faro, Portugal
	Instituto Superior Tecnico, Lisbon, Portugal
	Computational methods and function theory, University of Aveiro, Portugal
July	SIAM Conference on control and its applications, San Diego, CA
August	Third International Congress of the ISAAC (International Society for Analysis, its Applications and Computation), Berlin, Germany
October	Trends in Banach spaces and Operator Theory, Memphis, TN
November	Integrable Systems Seminar, Duke University, NC

2002	
January	International Conference on Factorization, Singular Operators and Related Problems, Universidade da Madeira, Portugal
March	XVIII South Eastern Analysis Meeting, University of North Carolina, Chapel Hill
	University of Arkansas, Fayetteville (colloquium talk)
	975th AMS Meeting, Georgia Tech, Atlanta, GA
	Georgia State University, Atlanta (colloquium talk)
April	University of Leeds, UK (colloquium talk)
	Functional Analysis seminar, University of Newcastle, UK
May	University of Sussex, UK
	London Analysis seminar, UK
	Yorkshire Functional Analysis group, UK
June	6th International Workshop on the Numerical Ranges, Auburn University, AL
August	Bell Laboratories, Lucent Technologies, NJ
September	San Francisco State University, CA (colloquium talk)

October	Abö Akademie, Finland
	Analysis Seminar, Michigan State University, East Lansing
	Kent State University, OH (colloquium talk)
November	982nd Meeting of the AMS, University of Central Florida, Orlando
	University of Bremen, Germany
	Chemnitz Technical University, Germany
December	Matrix Theory Seminar, University of Coimbra,
	Instituto Superior Tecnico, Lisbon, Portugal

2003

January	IUPUI, IN (colloquium talk)
February	Seminar of the Numerical Analysis and Computational Mathematics Group,
	University of Cagliari, Italy
	Seminar of the Department of Mathematics, University of Pisa, Italy
March	XIX South Eastern Analysis Meeting, University of Tennessee, Knoxville, TN
April	Analysis Seminar, University of California, Berkeley
	Cal Poly State University, San Luis Obispo (colloquium talk)
	Operator Theory Seminar talk, Cal Poly State University, San Luis Obispo
May	Universite Catholique de Louvain, Belgium
	Vrije Universiteit, Amsterdam, the Netherlands
	Third Conference of the European Research Network "Analysis and Operators"
	Tenerife, Canary Islands, Spain
	University of Namur, Belgium
August	Fourth International Congress of the ISAAC (International Society
	for Analysis, its Applications and Computation), Toronto, Canada
December	International Conference on Matrix Analysis and Applications,
	Nova Southeastern University, Fort Lauderdale, Florida

2004

February	University of Virginia, Charlottesville (colloquium talk)
March	Florida Atlantic University, Boca Raton (colloquium talk)
June	University of Pisa, Italy (crash lecture course)
November	Southern California Matrix Meeting, San Jose State University, CA

2005

April	University of Central Florida, Orlando (colloquium talk)
	XXI South Eastern Analysis Meeting, Washington and Lee University,
	Lexington, VA
May	New Perspectives for Boundary Value Problems and their Asymptotics
	NSF-CBMS research conference, UTPA, Edinburg, TX
June	5th International Conference on Matrix Analytic Methods in Stochastic Models
	Pisa, Italy (plenary talk)

July	International Workshop on Operator Theory and Applications, Storrs, CT (semi-plenary talk)
December	Seminar talks, Universities of Minho, Porto, and Coimbra, Portugal

2006

February	Special Semester on Gröbner Bases and Related Methods, Radon Institute for Computational and Applied Mathematics, Linz, Austria
March	XXII South Eastern Analysis Meeting, University of Florida, Gainesville, FL University of Miami (colloquium talk)
July	8th Workshop on "Numerical ranges and numerical radii", University of Bremen, Germany
August	International Workshop on Operator Theory and Applications, Seoul National University, South Korea (plenary talk)
September	International Workshop on Operator Algebras, Operator Theory and Applications, Instituto Superior Tecnico, Lisbon, Portugal (plenary talk)
December	2nd International Workshop on Matrix Analysis and Applications Nova Southeastern University, Fort Lauderdale, Florida

2007

January	CINVESTAV, Mexico City, Mexico (colloquium talk)
March	University College, London (colloquium talk) XXIII South Eastern Analysis Meeting, University of Richmond, VA
April	1027th AMS meeting, University of Arizona, Tucson (invited special session talk)
May	Drexel University (colloquium talk) AMS-SMM Joint Meeting, Zacatecas, Mexico (invited special session talk)
June	Instituto Superior Tecnico, Lisbon, Portugal (Functional Analysis and Applications seminar)
July	Cal Poly State University, San Luis Obispo (colloquium talk)
September	Workshop on the Riemann-Hilbert problem and Toeplitz operators, Heriot-Watt University, Edinburgh, Scotland (plenary talk)

2008

January	Instituto Superior Tecnico, Lisbon, Portugal (Functional Analysis and Applications seminar)
April	University of Alaska Fairbanks, AK (colloquium talk)
May	International Workshop on Analysis, Operator Theory and Applications Cancun, Mexico (plenary talk) 6th International Conference on Differential Equations and Dynamical Systems Morgan State University, Baltimore, MD (invited special session talk) 5th Linear Algebra Workshop, Kranjska Gora, Slovenia
June	15th Conference of the International Linear Algebra Society (ILAS)

	Cancun, Mexico (plenary talk)
July	9th International Workshop on the "Numerical Ranges and Numerical Radii", The College of William and Mary
September	Brown University, Providence, RI (Analysis seminar)
November	Virginia Operator Theory and Complex Analysis Meeting, Virginia Commonwealth University, Richmond (plenary talk)
	Workshop on Toeplitz-like operators and related topics, CINVESTAV, Mexico City, Mexico (plenary talk)

2009

January	The University of Southern Mississippi, Hattiesburg, MS (colloquium talk)
	University of South Alabama, Mobile, AL (colloquium talk)
February	Drexel University, Philadelphia, PA (Analysis seminar)
March	University of Seville, Spain (Analysis seminar)
	University of Lisbon, Portugal (colloquium talk)
	Autonomous University of Madrid, Spain (Analysis seminar)
April	Instituto Superior Tecnico, Lisbon, Portugal (Seminar on Functional Analysis and Applications — two talks)
	Barcelona Analysis Seminar, Spain
May	University of Algarve, Faro, Portugal
	2nd Najman Conference on Spectral Problems for Operators and Matrices, Dubrovnik, Croatia
	Haifa Matrix Theory Conference, Israel
	Complex Analysis & Dynamical Systems IV, Nahariya, Israel
	Universite Pieree et Marie Curie – Paris 6 (Functional Analysis seminar)
June	University of Bordeaux, France
	University of Marseille, France (Analysis seminar)
	Meeting on Operators and Matrices, College of William & Mary, Williamsburg, VA
October	Functional Analysis Seminar, Oxford University, UK
	London Analysis Seminar, University College London
December	Courant Institute seminar, NYU

2010

January	Cal Poly State University, San Luis Obispo (colloquium talk)
	SUMO Speaker series, Stanford University
June	International Summer School and Workshop "Harmonic Analysis and Related Topics", Lisbon, Portugal
July	Instituto Superior Tecnico, Lisbon, Portugal (Seminar on Functional Analysis and Applications)
	International Workshop on Operator Theory and Applications, Berlin, Germany (semi-plenary 45 min talk)
October	Workshop on Operator Theory, Complex Analysis and Applications

	Lisbon, Portugal
November	1065th Meeting of the AMS, University of Richmond, VA
	(invited special session talk)

2011

January	University of California in Santa Cruz (colloquium talk)
	IUPUI, Indianapolis, IN (colloquium talk)
March	XXVII South Eastern Analysis Meeting, University of Florida, Gainesville
April	International seminar "Modern methods and problems of Operator Theory,
	Harmonic Analysis, and their Applications", Rostov-on-Don, Russia
	(invited lecture via video conference)
	University of Tennessee in Chattanooga (colloquium talk)
June	Summer School and Workshop on Selected Topics of Operator Theory
	Lisbon, Portugal (course of three 90 minutes lectures)
July	Integral and Differential Operators and Their Applications, Aveiro, Portugal
	(plenary lecture)
	Research Experience for Undergraduate Faculty (REUF) workshop
	American Institute of Mathematics, Palo Alto, CA (group leader)
September	International conference "Continuum Mechanics and related problems of Analysis"
	Tblisi, Georgia (plenary lecture)
	2nd International Conference of the Georgian Mathematical Union, Batumi, Georgia
December	Workshop on "Stability, hyperbolicity, and zero localization of functions"
	American Institute of Mathematics, Palo Alto, CA

2012

January	University of Strathclyde, Glasgow, UK (colloquium talk)
	Brunel University, London, UK (Applied Mathematics and Analysis seminar)
March	Temple University, Philadelphia
	(Applied Mathematics and Scientific Computing Seminar)
April	NYU at Abu Dhabi, UAE (Science seminar)
	Second International Scientific Conference on Contemporary Methods,
	Problems and Applications of Operator Theory and Harmonic Analysis
	Rostov-on-Don, Russia (invited lecture via video conference)
	Cornell University, Ithaca, NY (Analysis seminar)
September	Workshop on Operator Theory and Operator Algebras
	Lisbon, Portugal (invited speaker)
October	University of Connecticut (colloquium talk)

2013

January	University of Reading, UK (Analysis seminar)
	Brunel University, London, UK (colloquium talk)

March	29th Annual South-Eastern Analysis Meeting, Virginia Tech, Blacksburg, VA
	Louisiana State University, Baton Rouge, LA (colloquium talk)
May	Structured Quartet Research Ensembles program on " Possible shapes of the numerical ranges for certain classes of matrices", American Institute of Mathematics, Palo Alto, CA (group leader)
	Drexel University, Philadelphia, PA (Analysis seminar)
June	18th Conference of the International Linear Algebra Society (ILAS) Providence, RI (invited special session talk)
	New Directions for Mathematics REUs, Mount Holyoke College, MA
August	1st Mathematical Congress of the Americas, Guanajuato, Mexico (invited special session talk)
September	NYU at Abu Dhabi, UAE (Science seminar)
October	Istanbul Analysis Seminar, Turkey
	International conference on Groups, Group Rings and Related Topics UAE University, Al-Ain, United Arab Emirates
December	24th International Workshop on Operator Theory and Applications, Bangalore, India (invited special session talk)

2014

February	NYUAD Research Conference, Abu Dhabi, United Arab Emirates

Professional service

College Committee service

College-wide: Library Policy Advisory Committee, Arts and Sciences Library Committee (1993 – 1997), Transportation Advisory Committee (Spring 2000 – Fall 2002).
Departmental: Graduate Studies Committee (1992–1993, 1996 – 2000), Library Representative (1993–1995, 1997 – 2002), Grants Opportunities Committee (Fall 1998 – 2000), Computer Committee (Fall 1999), Honors Committee (Fall 2007 – Spring 2008), Personnel Committee (Fall 1995, Fall 2000 – Spring 2002, Fall 2003 – Spring 2006, Fall 2007 – Spring 2008), Search Committee (Fall 2004 – Spring 2005, Fall 2007 – Spring 2008), Colloquium Committee (Fall 2003 – Spring 2008, Fall 2009 – Spring 2013), Merit Evaluation Committee (Fall 1998 – Spring 2000, Fall 2006 – Spring 2007, Fall 2009 – Spring 2012), Undergraduate Curriculum Committee (Fall 2012 – Spring 2013)

Other professional service

Editor for the special issues of *Acta Appl. Math.* devoted to Antonio Avantaggiati (v. 65, nos. 1–3, 2001), *Complex Analysis and Operator Theory* dedicated to Georgii Semenovich Litvinchuk (v. 2, no. 2 and 4, 2008), *Linear Algebra and Applications* dedicated to Professor Friedland (v. 431, 2009) and to Professor Rodman (2013, in progress), as well as IWOTA 2008 Proceedings (v. 202 and 203, 2010), "Convolution Equations and Singular Integral Operators" (v. 206, 2010), "Operator Theory, Pseudo- Differential Equations, and Mathematical Physics" (v. 228, 2013) and "Operator Theory, Operator Algebras, and Applications" (in progress) of the series *Operator Theory: Advances and Applications*.

Reviewer for *Mathematical Reviews* and *Zentralblatt* (about 180 reviews written),
Referee (at an average rate of about 25 papers per year) for journals in operator theory, integral equations, boundary value problems, matrix theory, control theory, among which: Proceedings of the National Academy of Sciences, Annals of Mathematics, Advances in Mathematics, Journal of the AMS, Transactions of the AMS, Proceedings of the AMS, Journal of the London Mathematical Society, Journal of the Australian Mathematical Society, Proceedings of the Royal Society of Edinburgh, Journal of Operator Theory, Journal of Functional Analysis and Applications, Journal of Mathematical Analysis and Applications, Journal of Inequalities and Applications, Journal of Physics A: Mathematical and Theoretical, Numerical Functional Analysis and Optimization, Michigan Mathematical Journal, Rocky Mountain J. Math., Linear Algebra and its Applications, Linear and Multilinear Algebra, Electronic Journal of Linear Algebra, SIAM J. Control and Optimization, Aequationes Mathematicae, Indagationes Mathematicae, Integral Equations and Operator Theory, Journal of Integral Equations and Applications, Indiana Journal of Mathematics, Complex Analysis and Operator Theory, Operators and Matrices, Operator Theory: Advances and Applications, Canadian Mathematical Bulletin, International Journal of Mathematics and

Mathematical Sciences, St.Petersburg Math. J., Mathematische Nachrichten, Proceedings of the Armenian Academy of Sciences, Applied Mathematics and Computation, International Journal of Applied Mathematics and Computer Science, Automatica, CUBO, and others.

Conference organizer: Member of the Steering Committee, International Workshops on Operator Theory and its Applications (July 2008 – present)

Member of the Organizing Committee, Old Dominion Operator Theory and Analysis Conference (Williamsburg, VA, 1995).

Member of the NSF Operator Algebras/Operator Theory Panel (2000-2001).

Member of the Scientific Program Committee, International Conference "Factorization, singular operators and related problems" (Madeira, Portugal, January 2002)

Member of the Program Committee, International Workshop on Operator Theory and its Applications (Storrs, CT, July 2005)

Member of the Program Committee, International Workshop on Operator Theory and its Applications (Seoul, Korea, July–August 2006)

Member of the Scientific Program Committee, Summer School and a Workshop on Operator Algebras (Lisbon, Portugal, September 2006)

Special session organizer, Seventh Joint International Meeting of the AMS and the Sociedad Matematica Mexicana (Zacatecas, Mexico, May 2007)

Member of the Organizing Committee, The 19th International Workshop on Operator Theory and its Applications (Williamsburg, VA, 2008)

Special session organizer, The 20th International Workshop on Operator Theory and its Applications (Guanajuato, Mexico, September 2009)

Special session organizer, Eights Joint International Meeting of the AMS and the Sociedad Matematica Mexicana (Berkeley, CA, June 2010)

Member of the Organizing Committee, International Linear Algebra Society Conference (Pisa, Italy, June 2010)

Member of the Scientific Committee, Integral and Differential Operators and Their Applications (Aveiro, Portugal, July 2011)

Special session organizer, The 22nd International Workshop on Operator Theory and its Applications (Seville, Spain, July 2011)

Member of the Scientific Committee, International conference "Continuum Mechanics and related problems of Analysis" (Tbilisi, Georgia, September 2011)

Special session organizer, The 24th International Workshop on Operator Theory and its Applications (Bangalore, India, December 2013)

Member of the Scientific Committee, The Third Wiener-Hopf Workshop (Aveiro, Portugal, June 2014)