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Liberal Arts and Sciences Mathematics

Lee A. Rubel Papers, 1955-95 Box 1:

Biographical Information Vita, 1987

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Personal Notes, 1983-84, 1993

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Course Materials

Grades, 1964-79

Grades (Gradebooks), 1958-59, 1964-72

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Lecture Notes, Stanford U., Spring & Summer, 1964 Lectures, "Entire Functions," Math 445, Spring, 1962-63

(2 Folders & 2 Bound Copies)

Course Notes, Math 445, Fall, 1977 Exam Problems, (handwritten drafts)

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ALG Prospectus,1983 ALGALL, 1983

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Bedrock, 1983 Boshru Lecture

CAS "Future," 1989-90

Colloquium at Arizona State University, 1989-90 DA Runge, 1985-86

Differentially Cyclic & Autonomous Functions, De Paul, 1989-90 Eikonal, 1988

"Extraordinary" Lectures, 1984

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How Fast Can A Function Grow? Independence Lecture, 1990

Indianapolis, 1991

Iowa Lectures, 1983 Ithaca, Conference Lecture Loomis Lecture, 1989 Minisurf: Hard Data, 1989 MRC Spline Lecture, 1984

New Rungiad, 1988 New Tensor

Philosophy Lecture on ADEs, 1983 Post-Tensor, 1986

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Q-Sohn IV, 1989

Rungiad-Translation of Poles, 1986 Siskakis PLOO, 1982-83

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Universal Beckman, 1989 Lecture Audio Tapes

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Publications

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Reviews of Complex Analysis, 1985 Publication Notes, 1980

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"Encore une Caracterisation de la Fonction Sinus," ca. 1981

"Explicit Solution of the Eikonal and Related Equations by a Method of Quasi-Solutions," ca. 1987

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"Solipsism, Nonadology and Algebraic Differential Equations," 1984 "Survey of a Fournier Series Method for Meromorphic Functions,"1973

"Uniform Approximation by Splines of Polynomials and of Entire Functions," 1974 Three Unpublished Manuscripts, 1986

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Bibliographies Bibliographies, 1986 Book on Entire Functions

A Palimsest on the Electronic Analog Art, 1955 (2 Folders) Research Notes

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Research Notebooks

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Problem Notebook, 1984

Math Notes, 1983

Notes, ca. 1979-80

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The Pullback Approximation Problem & Other Notes, 1971, 1977-83 Papers, Notes, Problems, 1968-75

Papers, Notes, Ideas, 1968-72 Mathematics Journal, 1965-66

Mathematics Journal, 1966 Problems, 1962-ca.1978

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Notebook, 1956-63

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Correspondence

Oliver Aberth, 1981

Shreeram Abhyanker, 1976-82 Jose L. Abreu, 1975-76 Academic Press, 1974-77

Lars Ahlfors, 1968-82

Air Force Office of Scientific Research, 1970-71, 1983 (2 folders)

E. J. Akutowicz, 1971-77 SUNY at Albany, 1980 Herb Alexander, 1984

W. R. Allaway, 1977

Daniel Alpert, Center for Advanced Study, UIUC, 1979 Eric Amar, 1979-81

American Mathematical Monthly, Unsolved Problems, 1977-86, 1989 William F. Ames, 1980-81

American Mathematical Society (AMS), 1970-84 S. K. Anand, 1979, 1983-84

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IAS (Institute for Advanced Study), 1974, 1980 Illinois State Academy of Science, 1981-82

University of Illinois, 1967, 1969-77, 1980-84, 1987-88, 1991 Indiana University Math Journal, 1979

Iran 1992 (Annual Iranian Mathematics Conference), 1991-92 John Isbell, 1973, 1975, 1978

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1. Martineau, 1962 Pesi R. Masani, 1970 Mas'ja, 1983

Maryland HP (Special Year in Complex Analysis), 1985 Math Reviews, 1984-85

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Mike McAsey, 1982-83

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Mucia-Moscow Scholar Exchange, 1978 Jan Myciclski, 1981, 1983-84, 1986, 1988

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Alex Nagel, 1978

1. Nagy, 1982

Named Lectures Committee, 1985-86, 1988

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National Academy of Sciences

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Zeev Nehari, 1968-71

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Donald J. Newman, 1970, 1972-75, 1978-79, 1984

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N. Nikolskii, 1978 Louis Nirenberg, 1986

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National Security Agency Mathematical Sciences Program, 1990 Daniel M. Oberlin, 1975-76

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Poland (Conference on Analytical Functions), 1982 Harry Pollard

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Princeton University, 1967-68

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1. N. Vasershtein, 1979
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Grants

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SCREMS (Scientific Computing Research Equipment for the Mathematical Sciences), 1989- 91 (3 folders)

Research Board

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National Science Foundation (NSF), 1994-95 KIM Research Board, 1992

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National Security Agency (NSA), Mathematical Sciences Program, 1988 National Security Agency (NSA), 1992

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Application for Funding through the AT&T Affiliates Program, 1987

National Science Foundation (NSF) $1500.00 flap, 1984-85 Beckman Institute, 1985

National Science Foundation Application, 1984-86 National Science Foundation Application, 1988

Research Prospectus, "Algebraic Differential Equations, Analog Computers, and the Central Nervous System"

Second Discipline, 1991-92

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**SECOND ACCESSION: four boxes were transferred to the archive in 2015.**

**Materials in this accession were arranged as follows:**

**Series 1: Personal writing, correspondence, and research notes, 1945-2000**

This series contains personal notes, professional and personal correspondence, calendars, notebooks, Rubel's

short stories and poems, and high school yearbooks. It also contains research notes and contr.

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10. Dickler, 1962
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14. General Math Notes, 1989
15. Heini Halberstam, 1983
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23. Boris Korenblum, 1971
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29. Math (Lee), 1950s

**Series 1: Personal writing, correspondence, and research notes**

**Box 10**

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8. Non + Math Notes, 1976
9. Notebook, 1981
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13. Notes, 1983-1986
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15. Personal Journal, 1965
16. Pictures, circa 1950s-1980s
17. Posters, circa 1970s
18. Retirement Guest Notebook, 1993
19. Norma Richards, 1984
20. Franklin Roosevelt Jr. – Correspondence, 1954
21. Naomi C. Roseman, 1975
22. Rubel Ancestors – Zsolnay, circa 2000s
23. Arthur Rubel, circa 1960s

**Box 11**

1. Lee Rubel – Letter to Harold Brodkey, 1984
2. Lee Rubel – Letter to Lokenath Debnath, 1983
3. Lee Rubel – Letter to Dick, 1978
4. Lee Rubel – Letter to U. Karen, 1978
5. Lee Rubel – Letter to Natasha Rubel, 1984
6. Lee Rubel – Letter to Glenn Schober, 1983
7. Lee Rubel – Letter to the editor of The Courier, Urbana, IL, 1971
8. Lee Rubel – Letter to Walter, 1978
9. Lee Rubel – Letter to WICD of Champaign, IL, 1975
10. Marcella Crohn Rubel, circa 1960s
11. Nina Rubel, 1950s-1960s
12. Rubel Short Stories, 1 of 2, circa 1950s-1960s
13. Rubel Short Stories, 2 of 2, circa 1950s-1960s
14. Paul and Sara Schepel, 1976
15. Science Yearbook – Broxn High School of Science, 1947
16. Aunt Seid, 1976
17. A. Siskakis, 1983
18. The Morning Courier – Profile of Lee Rubel, 1979
19. Traffic Court Summons, 1974
20. Ulku, 1978
21. Eva Vincent, 1965
22. Paul Wells, circa 1970s
23. Herbert Wilf, 1973
24. Wisconsin PhD Certificate, 1954

**Series 2: Lee A. Rubel Collected Works, 1950-2001**

This series contains posthumous correspondence and other material related to the creation of Lee A. Rubel's

Collected Works. Directed by Nina Rubel, the series contains correspondence with scholars, publishers, and university representatives concerning copyright and publishing permissions. It also contains bibliographies of Rubel's publications and biographical sketches.

**Box 11**

1. Beckman Institute, 1994
2. Bibliography, 1998
3. CD-Rom correspondence, 1996-1999
4. CD- Rubel Collected Works, 1998
5. Correspondence- Rubel Collected Works Project, 1998-2001
6. Danielyan, 1995-1999
7. Email about Lee, 1995-1999
8. Glickman, 1995-1996
9. Lee, 1993
10. Lee – Death, 1995
11. Lee – Final Week, 1995
12. Lee's Mail – Answered, 1994-1997
13. Lee – Miscellaneous Information, 1978-1985
14. Lee – Obituary, 1995
15. Memorial Service, 1995
16. MDS Sympathy, 1995
17. Photos, 1950-1998
18. Professional Correspondence and notes, 1985-1998
19. The Doors, circa 1990s

**Series 3: Publications, 1957-1999**

This series contains article publications from 1957 to 1999, including posthumously published articles after Professor Rubel's death in 1995. It also includes a draft and published copy of Professor Rubel's book *Entire and Meromorphic Functions*.

**Box 11**

1. Publications, 1957-1976

* L.A. Rubel (1957), Invariance of the Discriminant of a Quadratic Form, American Mathematical Monthly LXIV
* L.A. Rubel (1960), An Abelian theorem for number-theoretic sums, Acta Arithmetica VI
* L.A. Rubel (1961), Correction to 'An Abelian theorem for number-theoretic sums' Acta Arithmetica VI
* L.A. Rubel and B.A. Taylor (1968), Correction: Uniqueness theorems for analytic functions of one and of several complex variables, Proc. Camb. Phil. Soc. 64
* L.A. Rubel and B.A. Taylor (1968), A Fourier Series Method for Meromorphic and Entire Functions, Bulletin de la societe mathematique de France
* L.A. Rubel and B.A. Taylor (1969), Correction to 'Functional analysis proofs of some theorems in function theory'
* L.A. Rubel (1969), Symposia on theoretical physics and mathematics, New York: Plenum Press.
* I.D. Berg and L.A. Rubel (1970), Erratum: Densities on locally compact abelian groups, Depot Legal no. 903

44. Publications, 1957-1976 (continued)

* L.A. Rubel (1970), Erratum, Journal of Mathematical Analysis and Applications 31
* L.A. Rubel (1970), Errata: Some applications of the Gauss-Lucas theorem, L'Enseignement mathematique XVI
* Marvin C. Gaer and L.A. Rubel (1971), The Fractional Derivative via Entire Functions, Journal of Mathematical Analysis and Applications 34
* L.A. Rubel and A.L. Shields (1972), The Failure of Interiror-Exterior Factorization in the polydisc and the Ball, Tohoku Mathematical Journal 24
* L.A. Rubel and Chung-Chun Yang (1973), Interpolations and unavoidable families of meromorphic functions, Michigan Mathematical Journal 20
* Paul M. Gauthier and Lee A. Rubel (1975), Interpolation in separable frechet spaces with applications to spaces of analytical functions, Can J. Math XXVII
* L. Shibelds; L. A. Rubel (1975), Invariant subspaces of L 8 and H 8, Journal für die reine und angewandte Mathematik 272
* T Gamelin; J Garnett; Lee A. Rubel; A Shields (1976), On badly approximable functions, Journal of Approximation Theory 17
* L.A. Rubel (1976), How to use Runge's Theorem, L'Enseignement mathematique, T. XXII
* L. A. Rubel (1976), Harmonic analysis of harmonic functions in the plane, Proceedings of the American Mathematical Society 54

1. Publications, 1977-1992
   * + - L.A. Rubel (undated), Holomorphic endomorphisms of regions in Cn, Problem 17
       - Henson, Rubel, Takeuti (1977), Dissertationes Mathematicae, Warsaw
       - L.A. Rubel (1977), Errata: How to Use Runge's Theorem, L'Enseignment Mathematique 22
       - Lee A. Rubel (1977), Linear partial differential operators and mean-automorphic functions, Journal of Differential Equations 24
       - W. Kennel; L. A. Rubel (1977), Locally Outer Functions, Journal of the London Mathematical Society, s2-15 (3)
       - L.A. Rubel, W.A. Squires, B.A. Taylor (1978), Irreducibility of certain entire functions with applications to harmonic analysis, Annals of Mathematics 108
       - Lee A. Rubel (1979), Möbius-invariant spaces of continuous functions, Bulletin of the Greek Mathematical Society 20
       - Joseph Becker, C. Ward Henson, and Lee. A Rubel (1979), First-order conformal invariants, Annals of Mathematics
       - Nigel Kalton and Lee Rubel (1980), Gap-Interpolation theorems for Entire Functions,
       - Lee A. Rubel (1981), A universal differential equation, Bulletin of the American Mathematical Society 42
       - Harold G. Diamond; Carl Pomerance; Lee Rubel (1981), Sets on which an entire function is determined by its Range, Mathematische Zeitschrift 176
       - L.A. Rubel (1982), An Elimination Theorem for Systems of Algebraic Differential Equations, Houston Journal of Mathematics 8
       - L.A. Rubel (1983), Solutions of Algebraic Differential Equations, Journal of Differential Equations 49
       - L.A. Rubel (1983), A Counterexample to Elimination in systems of algebraic differential equations, Mathematika 30
       - L.A. Rubel (1983), Internal-External Factorization in Lumer's Hardy Spaces, Advances in Mathematics 50
       - L.A. Rubel (1983), Some research problems about algebraic differential equations, Transactions of the American Mathematical Society 280

45. Publications, 1977-1992 (continued

* + - * L.A. Rubel (1984), A Characterization of internal functions on multiply connected regions, Nagoya Mathematical Journal 96
      * C. Ward Henson and L.A. Rubel (1986), Correction to 'Some applications of Nevanlinna theory to mathematical logic: identities of exponential functions', Transactions of the American Mathematical Society 294
      * J. Brian Conrey and L.A. Rubel (1988), Erratum to 'On the Location of the Zeros of the Derivative of a Polynomial', Proceedings of the American Mathematical Society 104
      * Leonard Lipshitz and L.A. Rubel (1988), Corrigendum to 'A Differentially algebraic replacement theorem, and analog computability,' Proceedings of the American Mathematical Society 104
      * Lee A. Rubel (1992), Sums of squares of real entire functions of one complex variable, Proceedings of the international conference on Complex Analysis at the Nankai Institute of Mathematics

1. Publications, 1994-1995
   * + - Lee. A. Rubel, with James E. Colliander (Draft, 1994), Entire and Meromorphic Functions
       - Lee. A. Rubel, with James E. Colliander (1995), Entire and Meromorphic Functions
2. Publications, 1995-1999
   * + - J. Johnson; G. M. Reinhart; L. A. Rubel (1995). Some Counterexamples to Separation of

Variables, Journalof Differential Equations 121

* + - * W. K. Hayman; Lee A. Rubel (1995), Unavoidable systems of functions, Mathematical Proceedings of the Cambridge Philosophical Society 117
      * Lee A. Rubel and Chung-Chun Yang (1995), The Factorization of *A(z) + B(w)* Under Composition, Illinois Journal of Mathematics 39
      * Lee A. Rubel (1995), Correction to my paper 'closed-form solutions of some partial differential equations via quasi-solutions II,' Illinois Journal of Mathematics 39
      * Lee. A. Rubel (1995), An essay on Diophantine equations for analytic functions, Expo. Math. 13
      * R. Alexander; C. E. Blair; L. A. Rubel (1995), Approximate version of Cauchy's functional equation, Illinois Journal of Mathematics 39
      * L.A. Rubel (1995), Errata, Journal of Mathematical Analysis and Applications 189
      * Karl Dilcher and Lee A. Rubel (1996), Zeros of Sections of Divergent Power Series, Journal of Mathematical Analysis and Applications 198
      * Alexandre Eremenko; L. A. Rubel (1996), On The Zero Sets Of Certain Entire Functions, Proceedings of the American Mathematical Society 124
      * Lee A. Rubel (1996), Uniform Approximation by Rational Functions Which All Satisfy the Same Algebraic Differential Equation, Journal of Approximation Theory 84
      * Alexandre Eremenko and Lee A. Rubel (1996), The Arithmetic of Entire Functions under Composition, Advances in Mathematics 125
      * Jeong H. Kim and L.A. Rubel (1997), Integer Translation of Meromorphic Functions, Transactions of the American Mathematical Society 349
      * Rod Downey, Zoltan Furedi, Carl G. Jockusch Jr, L.A. Rubel (1998), Difference sets and computability theory, Annals of Pure and Applied Logic 93
      * A.A. Danielyan and L.A. Rubel (1998), Uniform Approximation by Entire Functions that are all bounded on a given set, Constructive Approximation 14
      * A.A. Danielyan and L.A. Rubel (1999), Erratum: Uniform Approximation by Entire Functions that are all bounded on a given set, Constructive Approximation 15

**Processing Notes for Second Accession:**

Added folder titles are indicated by [ ]. Duplicates, transactional documents, secondary literature, and unrelated newspaper articles were discarded. Processed by Peter Wright, under the supervision of Susanne Belovari, March 2019.