

This document represents a preliminary list of the contents of the boxes of this collection. The preliminary list was created for the most part by listing the creators' folder headings. At this time researchers should be aware that we cannot verify exact contents of this collection, but provide this information to assist your research.

UC Davis Special Collections

D-336 Keizer, Joel. Papers.

BOX 1

- Folder 1: Keizer—Preprints (1997-98)
- Folder 2: Keizer—III-Biology (1982-96)
- Folder 3: Keizer—III-Phys (1983-96)
- Folder 4: Keizer—II (1975-95)
- Folder 5: Keizer—I (1970-79)
- Folder 6: Biology—IV (1988-98)
- Folder 7: Misc. Results Canonical Form (1979, n.d.)
- Folder 8: Burgers/ Ca²⁺ Waves MS (1996-97)
- Folder 9: Effect of Molecular Fluct.../ Fox MS (1988-89)
- Folder 10: B-Cell Mitochondria MS2 (1997-98)
- Folder 11: “Mother” of all manuscripts (n.d.)
- Folder 12: On the Growth of Molecul...(Keizer, Fox, Tilden) (1990)
- Folder 13: Light Bulb MS (1994)
- Folder 14: Waves MS1 (1993-94)
- Folder 15: Ca²⁺ buffering/diffusion MS (1993)
- Folder 16: Energy Transport...MS (n.d.)

- Folder 17: Diffusion Controlled Reactions MS (n.d.)
- Folder 18: External Ca^{2+} , Ca^{2+} osc. MS figs. (1992)
- Folder 19: B-cell, Ca^{2+} / HIT cell bursting (1990)
- Folder 20: Amplification of Fluct. MS (1990)
- Folder 21: Preprints JEK (n.d.)
- Folder 22: Fluctuations/ Chaos (with Fox) MS (n.d.)
- Folder 23: Wagner/ Keizer Buffering MS.1 (1994)

BOX 2

- Folder 1: Theory B-Cell (1993-95)
- Folder 2: Ca-inhibition of Ca-channels (1989-97)
- Folder 3: Protein-channel Activators/Phosphorylation (1985-91)
- Folder 4: Receptor Model: Leak and Pump (1992)
- Folder 5: Fertilization Seminar (Fall 1993)
- Folder 6: Xenopus Ca^{2+} , Work (1990-94)
- Folder 7: M. Hanley, papers/ms. (1987-91)
- Folder 8: Ca^{2+} oscillations: IgE systems (1984-93)
- Folder 9: Reports, Journal articles, notes, (1991-95)
- Folder 10: Chemistry 230C (winter 1988)
- Folder 11: G. Smith, Ca^{2+} fluctuations (1995-96)
- Folder 12: Reversible Diff. Controlled Rx, Work (1986-94)
- Folder 13: G-Proteins, general (1982-96)
- Folder 14: Electrical "Slow Waves" (1981-92)
- Folder 15: Na^{+} and Na^{+} channels, general (1989-91)

- Folder 16: K⁺ channels, general (1990-92)
- Folder 17: Skidrow Relay, work (1997)
- Folder 18: Spark to wave transition (1996)
- Folder 19: Magnus—Mitochondrial trans, B cell (1991-94)
- Folder 20: Nonlocal Diff./Rx, Work (1991-97)
- Folder 21: Ryanodine Receptor Ca²⁺ release (1992-96)

BOX 3

- Folder 1: RBL cells, Fewtrell (1996)
- Folder 2: Magnus, Model/Thesis (1992)
- Folder 3: Magnus, B-cell (1982-93)
- Folder 4: Magnus Thesis, MS#1 (1996)
- Folder 5: Magnus, Thesis MS. (1990-93)
- Folder 6: Journal articles, graphs (1995-96)
- Folder 7: Group meeting (1995)
- Folder 8: Journal Club, Signaling (1993-96)
- Folder 9: NPB 105, Lectures (1996-98)
- Folder 10: NPB 105, Homework (1996-98)
- Folder 11: Math Biol. Lectures (1994)
- Folder 12: Modeling Papers (teaching) (1992-97)
- Folder 13: NPB 245 (winter 1998)
- Folder 14: NPB 245 (winter 1997)
- Folder 15: Ca²⁺ Puffs, Work (1993-96)
- Folder 16: Final Program/ Abstract Book: Sulfonylurea/ ATP Receptors (1993)

- Folder 17: Notebook (1986)
- Folder 18: Summary of Work on Depletion Activated Ca²⁺ Oscillations in
T-lymphocytes (1994)
- Folder 19: Ca²⁺ Oscillations with CAEROSCLMOD (1991)
- Folder 20: Ca²⁺ channel experiments (1990-91)
- Folder 21: Early work on RyR model (1994-95)
- Folder 22: Experiments with Insulin Oscillations Models (1993-94)

BOX 4

- Folder 1: NSF ARI proposal (1992)
- Folder 2: MSF Proposal (1997)
- Folder 3: Burroughs-Wellcome pre-proposal (1996)
- Folder 4: Burroughs-Wellcome pre-proposal (1998)
- Folder 5: NSF Final (1997)
- Folder 6: NSF DIR 90 06104 (1991)
- Folder 7: UCD Computational Biology (1989-91)
- Folder 8: Computational Neuro/Cellular Biology (1991)
- Folder 9: CIPIC Advising Comm. (1998)
- Folder 10: Virtual Cell, NIH Proposal (1997)
- Folder 11: Neuroscience, NIH training grant (1995)
- Folder 12: IVC/ NDB Computer Purchases (1995-96)
- Folder 13: Academic Plan Prop. (1997-98)
- Folder 14: High Performance Computing (1997)
- Folder 15: NIH Fert. Ca²⁺ Wave Prop. (1995)

Folder 16: GAANN (Math training grant) (1996-97)

Folder 17: CCNLS Workshop Proposal (1996)

Folder 18: NSF Renewal (1989)

Folder 19: NSF DIR 9006104 Annual Report (1992)

Folder 20: Wagner, whole cell Ca^{2+} model (1994-96)

Folder 21: Workstation Cluster (1998)

Folder 22: SDSC—Cray (1994)

Folder 23: Ca^{2+} waves, misc., NIH proposal, (1991)

Folder 24: NIH Continuation (1997)

Folder 25: NIH Continuation (1998)

Folder 26: Faculty Research Grant (1995)

Folder 27: Fertilization Ca^{2+} Wave report (1998)

Folder 28: Grant Application (1998)

Folder 29: Grant Application, con't (1998)

BOX 5

Folder 1: New and Notable: Bentram, et.al. MS (1995)

Folder 2: Effect of Osmotic Stress, MS (1995)

Folder 3: J. Pearson, MS, Ca^{2+} Waves (1997-98)

Folder 4: B-cell mitochondria, MS3 (1998)

Folder 5: Keizer/Fox, MS (1991)

Folder 6: Maki, MS2 (1994)

Folder 7: PM/ER Oscillator in Gonad., MS (1996)

Folder 8: RyR Oscillations, MS (1996)

Folder 9: B-cell mito. Ca^{2+} , MS1 (1996-97)

Folder 10: T-cell Ca^{2+} oscill. MS1 (1997)

Folder 11: Spark to Wave Transition, MS (1997-98)

Folder 12: Britannica, article (1992)

Folder 13: Saltatory Prop. of Ca^{2+} waves, WS (1998)

Folder 14: Fert. Ca^{2+} wave: MS1 final (1998)

Folder 15: Fert. Ca^{2+} wave in *Xenopus*, MS (1997-98)

Folder 16: T-Cell Ca^{2+} release, MS (1997-98)

Folder 17: 2d nonlocal differential. RX. MS (1996)

Folder 18: Gonadotrophs—Voltage MS (1996)

Folder 19: Les Treilles Workshop, MS (1997)

Folder 20: Ca^{2+} sparks, MS (1997-98)

Folder 21: Mito. Regulation...Ca signaling in T lymphocytes (1997)

Folder 22: Growth of Molecular Fluctuations for Nonstationary Systems (n.d.)

BOX 6

Folder 1: V-inact. Of Ca^{2+} WORK, HIT cell (1990)

Folder 2: HIT/ Mouse Misc. WORK (1990)

Folder 3: Channel fluctuations, B-cell (1987)

Folder 4: B-cell, pharmacological effects (1987-91)

Folder 5: Meda-Gap junctions (1981-92)

Folder 6: Human islets, B-cells (1991)

Folder 7: Ca^{2+} osc./electrical activity, B-cells (1986-93)

Folder 8: RBL cells, Ca^{2+} oscillations, WORK (1989-94)

Folder 9: New channels, pH effect, B-cell (1983-88)

Folder 10: Meeting Notes, B-cell (1991-96)

Folder 11: B-cell, Ca²⁺ Handling, I (1983-94)

Folder 12: B-cell, Ca²⁺ Handling, II (1981-86)

Folder 13: B-cell, General (1992-95)

Folder 14: Mazur—visit (1987-90)

Folder 15: One/two Dimen. Diff. Controlled Rx. (1985-87)

Folder 16: Consulting, II (1988)

Folder 17: Ca²⁺ sparks, Refs (1995-97)

Folder 18: Frog egg/mouse egg (n.d.)

Folder 19: Travel Expenses Voucher (1999)

Folder 20: Reports (1997-98)

Plus: (Unidentified items not in folders)

BOX 7

Folder 1: Publications and Papers in Print (1966-90)

Folder 2: Student Evaluations (1987-90)

Folder 3: Student Evaluations, Chem 1B (winter 1991)

Folder 4: I. Publications (1998)

Folder 5: II. Teaching Evaluations (1998)

Folder 6: III. Other Information (1998)

Folder 7: Merit (1992)

Folder 8: Merit (1990)

Folder 9: Book Reviews (1997-98)

Folder 10: Resume (1993)

Folder 11: Ag. Experiment Station (1988)

Folder 12: Neuro/Physio Behavior (1993)

Folder 13: Sabbatical Leave (1989-)

Folder 14: E-mail stuff, misc., (1995)

Folder 15: NIH—Chem. Phys. Lab (1987-88)

Folder 16: E-mail, misc., (summer 1994)

Folder 17: Merit (1993)

Folder 18: UCD (1992)

Folder 19: Chem 211B (spring 1993)

Folder 20: Reviews (1996)

Folder 21: Math Biol. Class. (1994)

Folder 22: Sabbatical (1992)

Folder 23: Math. Research Branch NIH (1990-91)

Folder 24: Merit (1997)

Folder 25: Grant Application (1997)

Folder 26: Misc. email (1996-98)

Folder 27: Letters (1994-98)

Folder 28: Reports, Academic plans (1997-98)

BOX 8

Folder 1: Reprints (1999)

Folder 2: Calcium group (n.d.)

Folder 3: Skeletal muscle glyc. Osc. WORK (1993)

Folder 4: NIH X. laevis Rev. Pro. (1995)

Folder 5: Brown fat cells, NoCa research (1998)

Folder 6: Beta cell Ca²⁺ effects, Work (1989)

Folder 7: Glycolytic/B-cell oscillations (1981-92)

Folder 8: Math II—Reed (1960)

Folder 9: Oregon—NSF (1967)

Folder 10: JK-misc. (1992-98)

Folder 11: Mazur, MS (1998)

Folder 12: MIP, Editorial Notes (1997)

Folder 13: Am. J. Physiol. Modeling Ed. (1995-96)

Folder 14: Ca²⁺ spark shape/buffers, MS (1997)

Folder 15: Energy of Decrepitation report (1960)

Folder 16: Joel/Reed papers (1963-64)

Folder 17: RG cells, MS (1998)

Folder 18: Metabolic Regulation (1998)

Folder 19: Gunn Effect, Spatial Dependence (1976)

Folder 20: Fluct. on L.C. and chaotic attract, MS (1988)

Folder 21: RBL cell, MS (1994-95)

Folder 22: Simplified receptor model, MS (1992-93)

Folder 23: Exocytosis/secretion, other systems (1981-98)

Plus: (Unidentified items not in folders)

BOX 9

Folder 1: Garst - Review

Folder 2: ARI - NSF Proposal

Folder 3: RTG - Site Visit (1996)

Folder 4: Joel's Proposals

Folder 5: ITD Annual Report (1991-92)

Folder 6: ITD Director

Folder 7: ITD Budget (1993-94)

Folder 8: ITD Budget (1994-95)

Plus: (Unidentified items not in folders)

BOX 10

Folder 1: Reports, papers (1996-98)

Folder 2: R. Stone—oral (1998)

Folder 3: Validity of RBA, MS (1995)

Folder 4: T, Chay—letters, etc. (1983-85)

Folder 5: Reviews (1995)

Folder 6: Recommendations (1978-94)

Folder 7: Proposal to National Science Foundation (1997)

Folder 8: RTG site visit (1996)

Folder 9: Swank donation (1996)

Folder 10: DOE Proposal (1998)

Folder 11: Wofsy, NSF (1997)

Folder 12: Comp. Sci. and Eng. (1998-99)

Folder 13: IDT (1997)

Folder 14: Workstation Clusters (1998)

Folder 15: UC Research—annual meeting (1991)

Folder 16: NSF—Computational Biology (1989)

Folder 17: TR Reorganization (1994)

Folder 18: PLOG/projector (1990-91)

Folder 19: Goldstein, LANL/VC (1996-97)

Folder 20: Visitors (1992-93)

Folder 21: Annual Report (1993-94)

Folder 22: Annual Report (1992-93)

Folder 23: Annual Report (1995-96)

Folder 24: Five Year Review: ITD (1990-95)

BOX 11

Folder 1: Multicomponent, Hydrodynamic Theory, WORK (n.d.)

Folder 2: Peticolas, binding (1991-93)

Folder 3: Transparencies (1994)

Folder 4: NIH/B-Cell collaboration (1987-88)

Folder 5: B-cell, K^+ oscillations (1983-84)

Folder 6: ATP/ADP channel modeling (1986-87)

Folder 7: Diffusion controlled Rx, Back Rx (1964-87)

Folder 8: Diffusion Controlled Reactions, WORK (n.d.)

Folder 9: Nonlocal Diff. Controlled Rx. MS (1995)

Folder 10: Springer—contract, correspondence (1985-92)

Folder 11: AJP Ca^{2+} review (1995)

Folder 12: Comments on theor. Biology (1992-93)

Folder 13: Pedro (1992-)

Folder 14: Maki, B-cell, I (1992)

Folder 15: Maki, Thesis, II (1993)

Folder 16: Becky Lee, Thesis (1993-94)

Folder 17: Goldstein 298, lecture notes (1997)

Folder 18: R. Fox (1979-)

Folder 19: R. Fox (1980-81)

Folder 20: Fox/Desai (1988-90)

Folder 21: Calcium Reports (1995)

BOX 12

Folder 1: Xenopus Ca²⁺ waves, work (1996-97)

Folder 2: Retinal ganglion cells (1998)

Folder 3: Fluct. on nonstationary traj. WORK (1987-89)

Folder 4: Fluct. on Lim. Cycles, WORK (1986)

Folder 5: Gonadotrophs (1996)

Folder 6: Buffering/Ca²⁺ waves, MS (1994)

Folder 7: Ca²⁺ waves: Spatial distribution, WORK (1994)

Folder 8: Ca²⁺ waves/Jafri, WORK (1992-93)

Folder 9: Chem 261, Notes, problems (n.d.)

Folder 8: Biol. Osc., Ref. (1973-84)

Folder 9: FASEB poster (1998)

Folder 10: RyR adaptation, Talk (n.d.)

Folder 11: Ca²⁺ fert. wave, workshop (n.d.)

Folder 12: Spark-to-Wave presentation (n.d.)

Folder 13: Journal articles, notes, letters, diagrams (1992-94)

Computer Disks

Slides

BOX 13

Folder 1: Fokker-Planck approach to rapid Rx (1981-85)

Folder 2: B-cell Electrical Act. TALK (n.d.)

Folder 3: B-cell, TALK (n.d.)

Folder 4: Mechanism of Stein Secretion... TALK (1991)

Folder 5: K_{ATP} channel, talk (1993)

Folder 6: Workshop, B-cell talk (1988-90)

Folder 7: Poznan lecture (1993)

Folder 8: Diffusion controlled reactions, talk (1981)

Folder 9: Rapid Bimolecular Reactions, talk (n.d.)

Folder 10: Mechanisms of Ca^{2+} oscillations and waves, talk (1993)

Folder 11: Ca^{2+} oscillations/waves, workshop (1993)

Folder 12: Program—Int'l Conference on Receptor Regulated Calcium Influx (1995)

Folder 13: Meetings (1989)

Folder 14: Beta cell talk, Stochastic (n.d.)

Folder 15: Buffer diffusion, talk (n.d.)

Folder 16: Beta cell ISSS, talk (1990)

Folder 17: Slow voltage inactivation (1990)

Folder 18: Gordon Conf. Talk (1985)

Folder 19: ADA meeting, poster (1989)

Folder 20: Reversible Trapping, talk (n.d.)

Folder 21: Diff. Control Rx—Figures (n.d.)

Folder 22: Diffusion controlled Rx, First passage times (1980-85)

Folder 23: Diff. Cont. Rx.—calculations, ideas (n.d.)

Folder 24: Diffusion Controlled, aggregation (1984)

Folder 25: Gonadotroph coupling, talk (n.d.)

Folder 26: Saltatory propagation, talk (1996-98)

Folder 27: Endocytosis/Diffusion, talk (n.d.)

Folder 28: ADA poster, Keizer/DeYoung (1992)

Folder 29: B-cell Mitochondria, talk (1992)

Folder 30: Rapid reactions, intro. talk (1991)

Folder 31: Minnipeg (1981-91)

Folder 32: Workshop, B-cell (1990)

Folder 33: Non-IP₃ Dependent Ca²⁺ osc. Talk (1992)

Folder 34: I-D Ca²⁺ waves/buffer, Wagner (1992-93)

Folder 35: Direct Transfer, talk (n.d.)

Folder 36: Gordon Conference, Workshop (1990)

Folder 37: Beta poster cell, Joslin Meeting (1991)

Folder 38: B-cell, general (1990)

Folder 39: Ca²⁺ waves/sparks, talk (1993)

Folder 40: Meetings (1998-)

Folder 41: Transparencies (n.d.)

Folder 42: Society of General Physiologists, talk (1998)

Folder 43: Mitochondrial Calcium Handling and Bursting in Beta Cells,
poster (1996)

Folder 44: Computational Problems in Cell Biology and Electrophysiology (n.d.)

Folder 45: PSB 1999 Symposium (1999)

Folder 46: ADA slide talk (1997)

Folder 47: Diagrams, charts (n.d.)

BOX 14

Folder 1: Diffusion controlled reactions (n.d.)

Folder 2: Fluct. on chaotic attractors, WORK (1981-89)

Folder 3: Keizer/Fox/Wagner article (n.d.)

Folder 4: Diffusion controlled reactions, transients (1978-89)

Folder 5: Steady State Flux, WORK (1975-92)

Folder 6: L.Bulb S.S. WORK (1977-94)

Folder 7: Misc. research results (n.d.)

Folder 8: Thermodynamic state functions at steady states (n.d.)

Folder 9: Fluctuations, steady states, stability (n.d.)

Folder 10: Stochastic processes IV, WORK (1973-76)

Folder 11: Stochastic processes II, WORK (1974)

Folder 12: Max-Min Principles: Linear non-equil. thermodynamics (n.d.)

Folder 13: Non-equil. Thermodynamics (n.d.)

Folder 14: Work and efficiency (1983)

Folder 15: Barrier crossing/reaction (1981-86)

Folder 16: Diffusion controlled reactions, Ref. (1955-89)
Folder 17: Diffusion controlled reactions, Exper. (1986)
Plus: (Unidentified items not in folders)

BOX 15

Folder 1: Lighthouse/LaCura (1980)
Folder 2: Lighthouse conf., receptors (1983)
Folder 3: Utah workshop (1996)
Folder 4: Names and addresses (1978-97)
Folder 5: PSB (1999)
Folder 6: Graduate group (1990)
Folder 7: LaTeX, Stuff/tips (1992-93)
Folder 8: Slide pres., pres. (1998)
Folder 9: Seminars (spring 1991)
Folder 10: Meetings (1997-98)
Folder 11: CIF—X. oocyte, WORK (1998)
Folder 12: Meetings (1992-94)
Folder 13: Meetings (1995-96)
Folder 14: IMA workshop (1998)
Plus: (Unidentified items not in folders)

BOX 16

Folder 1: Keizer: MSRI workshop (July 1992)
Folder 2: Keizer/Smolen MS (n.d.)

- Folder 3: Thermodynamics at Isothermal Isobaric Steady States (n.d.)
- Folder 4: Anomalous Light Scattering at the Surface of Growing
Keizer/Mazur (n.d.)
- Folder 5: Molecular Fluctuations on Limit Cycles and Chaotic Attractions (n.d.)
- Folder 6: The ATP-Sensitive Potassium Channel and Bursting in the Pancreatic
Beta Cell (n.d.)
- Folder 7: Statistical Thermodynamic of Nonequilibrium Processes, Chapter I (n.d.)
- Folder 8: Chapter II
- Folder 9: Chapter III
- Folder 10: Chapter IV
- Folder 11: Chapter V
- Folder 12: Chapter VI
- Folder 13: Chapter VII
- Folder 14: Chapter VIII
- Folder 15: Chapter IX
- Folder 16: Chapter X
- Folder 17: Organized Research Unit proposal (1985)
- Folder 18: Theoretical Dynamics, Director (1985-90)
- Folder 19: Mathematical Sciences, UCD (1987)
- Folder 20: ITD, visitors (1985-86)
- Folder 21: Space request, ITD, (1985)
- Folder 22: Program project, Institute, (1987-88)
- Folder 23: INLS—support letters (1985)

Folder 24: Keizer, Fox, Wagner, MS (1992)

Folder 25: Copies of figures for book (n.d.)

Folder 26: Conference, speakers (1985-86)

Folder 27: Conference, final arrangements (1985-86)

Folder 28: Joel Keizer, C.V. (1986)

Folder 29: Conference on Nonlinear Science (March, 1986)

Folder 30: Chapter 7 (n.d.)

Folder 31: Registered Conference Participants (1986)

Folder 32: ITD Computer Committee (1986)

Folder 33: Conference on Nonlinear Science -
Schedule & Abstracts of poster presentations (1986)

Folder 34: Conference on Nonlinear Science, con't (1986)

Folder 35: Conference on Nonlinear Science, con't (1986)

BOX 17

Folder 1: NSF, Proposal—J. Keizer (1986)

Folder 2: Workstation

Folder 3: Tilden—Consulting (1986-88)

Folder 4: B-cells, WORK (1981-83)

Folder 5: Festschrift, MS (1986-87)

Folder 6: NSF, CHE 86-18647, Annual Report (1987)

Folder 7: Colloquia series, Phys. Chem. in cell biol. (1987)

Folder 8: Book Reviews (1988-89)

Folder 9: M. Rubi (1983-87)

Folder 10: NSF Grant, CHE 86-18647 (1987)

Folder 11: US-Spain Co-op, Proposal (1988)

Folder 12: NIH Proposal (1987-88)

Folder 13: Direct Transfer (1989-91)

Folder 14: PNAS—Direct Transfer, MS (1977-89)

Folder 15: Biophysical Journal (1995)

Folder 16: Wave MS2 (Jafri, Keizer) MS (1995)

Folder 17: Regulatory Enzymes, Ref. (1961-79)

Folder 18: NIH proposal, revised (1987)

Folder 19: Cytoplasmic matrix (1966-97)

Folder 20: Science Journals (1984-86)

Folder 21: The Santa Cruz Operation (1987)

BOX 18

Folder 1: NIH/Leiden (1987)

Folder 2: UCD (1987-89)

Folder 3: Weber/Bernhard (1981-87)

Folder 4: Secretion Club (1987)

Folder 5: NSF renewal (1989)

Folder 6: Spain Project (1983-86)

Folder 7: Institute, miscellaneous (1985-88)

Folder 8: Employment, UCD (1977-88)

Folder 9: NSF, CHE 86-18647 progress report (1988)

Folder 10: Keizer, Joel—pending PHS “Kinetics and Thermodynamics of...”

(1987-88)

- Folder 11: Keizer/Bernhard proposal (1986-87)
- Folder 12: Keizer/Bernhard grant proposal (1984-86)
- Folder 13: Compaq II (1986)
- Folder 14: ITP, Secretarial Upgrades (1988)
- Folder 15: Postdoctoral (1988-91)
- Folder 16: NIH—Electrical Activity and Insulin Release from the B-cell,
NSF proposals, (June, 1989)
- Folder 17: NIH Proposal—figures (1989)
- Folder 18: ITD, space (1988)
- Folder 19: B-cells, correspondence, Chay (1981-82)
- Folder 20: B-cell: Insulin release (1983-84)
- Folder 21: ITD—Equipment (1986-88)
- Folder 22: Public Health Service Grant—application (1990)

BOX 19

- Folder 1: External Ca^{2+} /Electrical activity (1992-93)
- Folder 2: Conditional open prob. MS (1992)
- Folder 3: Two roles for Ca^{2+} , MS (1991)
- Folder 4: Frequency-dependent quenching, MS (1993)
- Folder 5: B-cell, computing (1984-85)
- Folder 6: INCOR (1990)
- Folder 7: NSF renewal (1989)
- Folder 8: Recruitment (1990-91)

Folder 9: UCD (1991-92)

Folder 10: UCD (1990-91)

Folder 11: Gordan Conference (1987)

Folder 12: S&T Proposal—Comp. Fluid Ryn. (1989-90)

Folder 13: Cannon Beach (1987)

Folder 14: Steady State Flux, MS (1992)

Folder 15: Research Trends “Density Fluct...” MS (1990-92)

Folder 16: Single pool IP_3 (1991-92)

Folder 17: Ca-inactivation, MS (1989-90)

Folder 18: Open channel noise, MS (1990-92)

Folder 19: Hydrodynam. Fluct./Lorenz, MS (1993)

Folder 20: Response to Nicolis and Bala... MS (1991)

BOX 20

Folder 1: Applied math/Theor. Dyn., Colloquia (1984-86)

Folder 2: Summer school, CCCNLS (1989)

Folder 3: NLS workshop (1988)

Folder 4: ITD/ Applied Math, colloquium (1986-88)

Folder 5: CCCNLS Workshop, Tracy/Mulase (1991)

Folder 6: Keizer, Insulin Beta Cell workshop (1990)

Folder 7: Annual Report (1989-90)

Folder 8: ITD Annual Report (1988-89)

Folder 9: ITD Annual Report (1987-88)

Folder 10: ITD Annual Report (1986-87)

Folder 11: ITD Annual Report (1986-86)

Folder 12: Budget (1992-93)

Folder 13: FY Budget (1991-92)

Folder 14: 1990/1991 Fiscal Year (1990-91)

Folder 15: 88-89 Budget (1988-89)

Folder 16: 1989/1990 Fiscal Year BUDGET (1989-90)

Folder 17: ITD Budget (1985-88)

Folder 18: ITD Newsletter (1987)

Folder 19: UC Conf. In Nonlinear Science (1986)

Folder 20: Nonlinear Science Conf. (1985-86)

Folder 21: Metab.—NIH (n.d.)

Folder 22: ATPases (Ca²⁺, K⁺-Na⁺) (1981-87)

Folder 23: Evolution: Notes (1977-78)

Folder 24: Enzyme control mechanisms (1972-77)

Folder 25: Mouse B-cell, MS (1991)

Folder 26: Beta-cell-voltage/Ca²⁺ inactivation, MS (1990-91)

Folder 27: Open channel noise, MS (1992)

Folder 28: Nonstationary diffusion-controlled, MS (1991)

Folder 29: MRU proposal (1987)

Folder 30: Nonlinear Studies conference/correspondence (1984-86)

Folder 31: ITD Annual Report (1987-88)

Folder 32: Proposal Evaluations—Mangel (1988)

Folder 33: Correspondence (1988-91)

Folder 34: NSF Proposal—Center for the Study of Dynamic and Stochastic Processes
in the Sciences (1988)

BOX 21

Folder 1: Electrochem osc. (1960-80)

Folder 2: Hg Drop III (1974-75)

Folder 3: Vibrational Relax: Hydrodynamic Theory (1973)

Folder 4: Figures (n.d.)

Folder 5: A Steady State Theory of Hot Atom Reactions (1972-73)

Folder 6: Oscillating Reactions (1967-74)

Folder 7: Torsional B-motion, Fox/Uhlenbeck, Kac (1929, 1976)

Folder 8: Light Scattering (1968-73)

Folder 9: Thermodynamics (1970-77)

Folder 10: R.F. Fox (1977-78)

Folder 11: Stability Theory (1968-78)

Folder 12: Non-Equil. Thermo. (1967-82)

Folder 13: R.F. Fox (1971-74)

Folder 14: T. Hill II (1974-84)

Folder 15: T.L. Hill (1966-78)

Folder 16: Multiple Collision Effects, TALK (n.d.)

Folder 17: TALKS (1970-72)

Folder 18: Spontaneous Fluctuations in Hydrodynamics, TALK (1976)

Folder 19: Evolution talk (n.d.)

Folder 20: Electrochemical Oscillations (n.d.)

Folder 21: Fluctuations/B-motion/Light scatter, TALKS (n.d.)

Folder 22: Low Density Master Equation, UCD (1970)

Folder 23: Fluctuation/Stability, TALK (n.d.)

Folder 24: Electrochemical Oscillations (n.d.)

Folder 25: Transparencies, charts, figures (n.d.)

Folder 26: Ice Physics, melting/freezing, crystallization (1974-86)

Folder 27: Transparencies (n.d.)

Folder 28: Journal Articles (1982-86)

BOX 22

Folder 1: Master Equation, sundry (n.d.)

Folder 2: Master Equation III (n.d.)

Folder 3: Stability (n.d.)

Folder 4: Thesis; ensemble papers, correspondence (1969-70)

Folder 5: Constraint pressure solution theory (1968)

Folder 6: Master Equation II (n.d.)

Folder 7: Master Equation I (1970)

Folder 8: Master Equation: Essential Results (n.d.)

Folder 9: Hot Atom (n.d.)

Folder 10: Isomerization Reaction (n.d.)

Folder 11: Keizer: Master Equation II (1971)

Folder 12: Kinetic Constants From Master Equation (n.d.)

Folder 13: Master Equation for $A+X=X+B$ (1970-71)

Folder 14: C. Kittel—Entropy Max. Princ. (1971)

- Folder 15: Surface-gas interactions (1947-61)
- Folder 16: Notes on S.M. (n.d.)
- Folder 17: Measurements (n.d.)
- Folder 18: Master Equation: Kinetics (n.d.)
- Folder 19: Steady State—Hot Atom (1967)
- Folder 20: Thesis (1968-69)
- Folder 21: Ensembles (1968)
- Folder 22: S.S. Boltzman Eq. (1966)
- Folder 23: De Donder's Theorem (1973)
- Folder 24: Comment on the Effect of Inertia (1971-73)
- Folder 25: $A+X=B+X$ fluctuations (n.d.)
- Folder 26: $X+A=B+X$ fluctuations (n.d.)
- Folder 27: Gunn Effect, WORK (n.d.)
- Folder 28: Electrochem. Osc. (n.d.)
- Folder 29: Anomalous Light Scattering H₂O (1959, 1973, 1980-84)
- Folder 30: Path Integrals/Ext. Princ. (n.d.)
- Folder 31: Joel Keizer (n.d.)
- Folder 32: R.F. Fox papers/correspondence with Keizer (1973)
- BOX 23
- Folder 1: Chem. 1C, lectures (1987)
- Folder 2: Chem. 1C, ORG./LABS (1987)
- Folder 3: Chem. 210A—notes (1977)
- Folder 4: Richard Noyes—visiting faculty (1985)

- Folder 5: Correspondence (1982-86)
- Folder 6: Thermodynamic coupling, MS (1973)
- Folder 7: T.L. Hill (1986-87)
- Folder 8: Hydrodynamic Fluctuations, ref. II (1978-85)
- Folder 9: Class lists, grades—107A (1988)
- Folder 10: Fluctuating hydrodynamics (1969-79)
- Folder 11: Fluctuations/random walks—solids (1973-79)
- Folder 12: Stochastic Processes, Ref. VI (1973-86)
- Folder 13: Stochastic Processes, Ref.. V (1971-78)
- Folder 14: Stochastic Processes, Ref. III (1973-75)
- Folder 15: Chemical master equations (1975-77)
- Folder 16: Chaos/oscillations/etc. (1974-85)
- Folder 17: Stochastic Processes IV, ref. (1976-77)

BOX 24

- Folder 1: Chemical Fluct. (1973-85)
- Folder 2: Stochastic Process, Ref VI (1976-85)
- Folder 3: Stochastic Processes, Ref. II (1972-75)
- Folder 4: Stochastic Processes, Ref. I (1973-75)
- Folder 5: Prigagine and co-workers (1965-74)
- Folder 6: Geometry (1976-77)
- Folder 7: Non-equil. Energy Dist. (1972-76)
- Folder 8: Relaxation: Statistical (1971-76)
- Folder 9: Ising Model: Multiple Equil. (1978)

- Folder 10: Single Time Master Equations (1968)
- Folder 11: Biological (1958-69)
- Folder 12: Transport—coefficients (1962-74)
- Folder 13: Fundamentals (1964-70)
- Folder 14: Reprints, FOX (1967)
- Folder 15: B. Motion; Fluctuations (1930, 1945, 1973-75)
- Folder 16: Fluctuations, Brownian motion (1968-73)
- Folder 17: Chemical reactions—dynamics, kinetic constants (1937-39, 1960-75)
- Folder 18: Stochastic (Master Eq.) Approach to Kinetics (1965-74)
- Folder 19: I: Ensembles (1970)
- Folder 20: Keizer: Thesis I (1969)
- Folder 21: Ising Model—NASH (1970)
- Folder 22: Misc. Biology (1978)
- Folder 23: Transport Papers (1959-69)
- Folder 24: Transport (1970)
- Folder 25: Battelle and Recountres (1969)
- Folder 26: Master Equation II (n.d.)
- Folder 27: Correlation functions (1960)
- Folder 28: Micro Canonical Partitions (n.d.)
- Folder 29: A New Approach for the Justification of Ensembles in Quantum
Statistical Mechanics (1970)
- BOX 25
- Folder 1: Fluct. & Thermo. CNLS (1983)

- Folder 2: Nonequilibrium EMF, Talk (n.d.)
- Folder 3: Nonequil. EMF: Theory and Experiment (n.d.)
- Folder 4: Stat. Thermo. of Nonequil Proc. I (n.d.)
- Folder 5: Steady State Thermo., Talk (n.d.)
- Folder 6: Scott Ballooning, MS Talk (n.d.)
- Folder 7: Fine grained Master Equation, Talk (n.d.)
- Folder 8: Fluctuation/Dissipation seminar (n.d.)
- Folder 9: Regulation in Metabolism, Talk (1977)
- Folder 10: Schloss Elman, talk/paper (1976)
- Folder 11: Fluct., Stability, & Thermo., Talk (n.d.)
- Folder 12: Mercury Drop Oscillations, Talk (n.d.)
- Folder 13: Gunn Effect, Talk (1976)
- Folder 14: Liapunov stability talk (n.d.)
- Folder 15: Boulder MS., and talk (n.d.)
- Folder 16: Thermodynamics at N.E.St.St. BioPhys.Soc. (n.d.)
- Folder 17: Hydrodynamic Fluctuations, Talk (n.d.)
- Folder 18: Gordon Conf. Talk (1983)
- Folder 19: Gordon Conf. Talk (n.d.)
- Folder 20: Extended Thermo., Talk (n.d.)
- Folder 21: Schloss/Elman (1979)
- Folder 22: Dynamical Basis of Caratheodory Statement of the 2nd Law (n.d.)
- Folder 23: Botany 221 talks (1973-74)
- Folder 24: Fluctuations talk (n.d.)

Folder 25: QUALMS, talk/paper (n.d.)

Folder 26: Figure Captions (n.d.)

Folder 27: Statistical Thermodynamics of Nonequilibrium Processes Ch.1-2

Folder 28: Statistical Thermodynamics of Nonequilibrium Processes Ch. 3-4

Folder 29: Statistical Thermodynamics of Nonequilibrium Processes Ch. 5

Folder 30: Statistical Thermodynamics of Nonequilibrium Processes Ch. 6-7

Folder 31: Statistical Thermodynamics of Nonequilibrium Processes Ch. 8-10

Folder 32: Equilibrium Distribution (n.d.)

Folder 33: Chapt. #1 fig's (n.d.)

Folder 34: Chapt. #2 fig's (n.d.)

Folder 35: Chapt. #4 fig's (n.d.)

Folder 36: Chapt. #5 fig's (n.d.)

Folder 37: Chapt. #6 fig's (n.d.)

Folder 38: Chapt. #7 fig's (n.d.)

Folder 39: Chapt. #8 fig's (n.d.)

Folder 40: Chapt. #9 fig's (n.d.)

Folder 41: Chapt #10 fig's (n.d.)

BOX 26

Folder 1: Vibrational Relaxation (1972-73)

Folder 2: Arrhenius Hot-Atom (1959, 1973)

Folder 3: John Shiner/variational principles (1984-86)

Folder 4: Stochastic Processes, WORK III (1975)

Folder 5: Keizer/McQuarrie, MS (1981)

Folder 6: Anomalous Light Scattering, MS2

Folder 7: Hg Drop—numerical work (n.d.)

Folder 8: Response to Eu, MS (1983-84)

Folder 9: B.I. Biophysic Lecture Series (1970-71)

Folder 10: BioSci.10 transparencies, pg. 59-76 (1995)

Folder 11: Extra ensemble papers (n.d.)

Folder 12: BioSci.10 transparencies, pg. 35-58 (1994)

Folder 13: Chem.10 (1979)

Folder 14: ATP: “A Note on Can. Dist.” (1979)

Folder 15: Darwin-Fowler correspondence (1968-69)

Folder 16: Generalization of Darwin-Fowler, American Journal of Physics (n.d.)

Folder 17: Mazo S.M. UofO (1966)

Folder 18: Chem. 215, UCD, spring (1972)

Folder 19: Spontaneous Oscillations in a “Mercury Heart”-like System (n.d.)

Folder 20: Joel Edward Keizer—dissertation (1969)

Folder 21: Joel Edward Keizer—dissertation (1969)

Folder 22: Joel Edward Keizer—dissertation (1969)

Folder 23: Joel Edward Keizer—dissertation (1969)

Folder 24: Base Systems (n.d.)

BOX 27

Folder 1: BioSci.10, grades, (winter 1995)

Folder 2: Reserve Articles (1994)

Folder 3: BioSci.10 copying (1995-96)

Folder 4: BioSci.10 (winter, 1996)

- Folder 5: BioSci.10 (winter, 1995)
- Folder 6: BioSci.10, Section 02, (1995)
- Folder 7: BioSci.10 Misc., (1994)
- Folder 8: BioSci.10, class lists, grades (1994)
- Folder 9: BioSci.10 (1994)
- Folder 10: BioSci.10, transparencies, pg. 1-34 (1994-96)
- Folder 11: BioSci.10 lectures (1996)
- Folder 12: BioSci.10 lectures (1995)
- Folder 13: Diffusion Control, MS I (1981)
- Folder 14: Non-Equil. Thermodynamics (1975)
- Folder 15: Concentration Fluctuations (1975)
- Folder 16: An Integrating Factor...MS (1981-84)
- Folder 17: Fluctuations: MS #1 General Theory (1975)
- Folder 18: Qualms (1973)
- Folder 19: Membrane fluctuations (n.d.)
- Folder 20: Hg Drop—Experimental (1974)
- Folder 21: Hg Drop, MS figures, tables (1974-75)
- Folder 22: Mercury Drop II (n.d.)
- Folder 23: Hg Drop—Numerical work (n.d.)
- Folder 24: Modified Volterra Eq. (n.d.)
- Folder 25: Fluctuations, MS (1974-75)
- Folder 26: Copies (figures)/(refs) (n.d.)
- Folder 27: Scott MS, Sci. American (1983-84)

Folder 28: Electrochemical oscillations (n.d.)

BOX 28

Folder 1: Accounts, MS (1978-79)

Folder 2: Steady State Thermo/Boulder, MS (1983)

Folder 3: Rotational Diffusion/Reaction, MS (1982)

Folder 4: Cumulant Expansions (1957-76)

Folder 5: Non-Equilibrium Steady States (1973-77)

Folder 6: Hot Atom (1959-79)

Folder 7: Oxidative Phos.—ATP (1979)

Folder 8: Uhlenbeck/Fox (1972)

Folder 9: On the Solutions and Steady States of Master Equations (1960-72)

Folder 10: Hg Drop I, MS (n.d.)

Folder 11: Hot Atom Model Calculations: Wemmer, Keizer (1965-74)

Folder 12: Oscillating Hg Drop I (n.d.)

Folder 13: Coupled Reactions (n.d.)

Folder 14: Relaxation, Trans-vib coupling (n.d.)

Folder 15: Hill—Steady States and Master Eq. Solutions (1964-70)

Folder 16: Trans-Vibr. Coupling *Model* (1971)

Folder 17: $A+X=B+X$, revised, MS (1972)

Folder 18: Multiple Collision Effects, MS (1974)

Folder 19: Trans/Vib coupling, MS (n.d.)

Folder 20: 3 Body Collisions—Shin/Keizer, MS (1970-74)

Folder 21: Butch (1967-77)

Folder 22: B-cell, MS (1982-83)

Folder 23: Journal article, calculations (n.d.)

BOX 29

Folder 1: Glycolytic Processes (1975-85)

Folder 2: Misc. Metabolism Regulation (1976-79)

Folder 3: Whole Cell Models (1980-85)

Folder 4: Binding/Receptors/Fluctuations (1982-85)

Folder 5: Protein Dynamics (1983-84)

Folder 6: Biological Oscillators (1981-85)

Folder 7: Biological Oscillations (1973-87)

Folder 8: Reverse osmosis, Semi-permeable membranes, REF (1965-70)

Folder 9: Fluctuations/Stoch. Processes (1975-83)

Folder 10: D. Garfinkel (1971-79)

Folder 11: Biological NMR (1984)

Folder 12: Endocytosis, II (1985-86)

Folder 13: Eigen, etc. (1968-74)

Folder 14: Sickle Cell Hemoglobin (1974-79)

Folder 15: History (1968-73)

Folder 16: Crystal surfaces/Growth (1982-83)

Folder 17: Non-equil. Fluctuations (1975-78)

Folder 18: FASEB Review (1995)

Folder 19: Substrate Cycles (1978-83)

Folder 20: Misc. Fluctuations (1976-83)

Folder 21: Anomalous Scattering, MS III (1988-89)

Folder 22: Nonequil. EMF Ref. (1951-58, 1978-88)

Folder 23: Light Scattering, ICE (1966, 1984-91)

Folder 24: NSF Renewal, Keizer (1992)

BOX 30

Folder 1: Misc. Reading (1966-81)

Folder 2: Lighthouse, ATPases (1981)

Folder 3: Ion channels (1987-89)

Folder 4: Kinetic Theory/Boltzmann Eq. (1980-81)

Folder 5: R.B. Cells (1978-83,89-90)

Folder 6: Fluctuating Boltzmann Eq. (1978-81)

Folder 7: Biochemical Control Mechanisms (1983)

Folder 8: Burroughs-Wellcome RTG (1996)

Folder 9: Maki, Thesis MS (n.d.)

Folder 10: Gonadotrophs, AJD, Review article (1994)

Folder 11: Nonequilibrium EMF, WORK (n.d.)

Folder 12: Nonequil. EMF—II, MS (1987)

Folder 13: EMF, experimental (1986)

Folder 14: Nuclear Energy, Nuclear Weapons (1981-82)

Folder 15: Nonequil. EMF, figures (n.d.)

Folder 16: Nonequil. EMF I and II, MSS (1987)

Folder 17: Reviews (1994-95)

Folder 18: Chemical Fluctuations (1971-74)

Folder 19: IUC Proposal (1992-93)

Folder 20: Classical Transport Papers (1952-78)

Folder 21: Fluctuations/ Stoch. Processes (1979-85)

Folder 22: Misc. Biology (1962-84)

Folder 23: Membrane fluctuations (1974-84)

BOX 31

Folder 1: Gonadotrophs, MS.1 (1993)

Folder 2: Metabolic Systems & Oscillations (1978-83)

Folder 3: NSF Proposal (1992)

Folder 4: Brochure/logo (1993)

Folder 5: Performance Evaluations (1991)

Folder 6: INLS—Santa Cruz (1987)

Folder 7: Light Scattering II, MS (1988)

Folder 8: Keizer/Magnus, original figures, MS (1988-89)

Folder 9: Direct Transfer, MS (1988)

Folder 10: Thermodynamics at Isothermal, Isobaric Steady States (1989)

Folder 11: Ca^{2+} inhib. Of Ca^{2+} II, WORK (1991)

Folder 12: Direct Transfer, 2nd MS, WORK (1977-91)

Folder 13: MSRI refs. (1989-91)

Folder 14: MSRI workshop, I (1991-92)

Folder 15: MSRI workshop, II (1992)

Folder 16: MSRI workshop, III (1992)

Folder 17: MCB review, MS (1995)

Folder 18: Maki, MS1 (1992-95)

Folder 19: Gonadotrophs (1988-95)

BOX 32

Folder 1: Anomalous Light Scattering of Ice (1979-83)

Folder 2: Static Quenching, WORK (1974-85)

Folder 3: Solution of Boltzmann Eq. (1983-85)

Folder 4: Electrochem. Fluctuations, Ref. (1969-78)

Folder 5: Comparison with Diffusion Processes (n.d.)

Folder 6: Macroscopic Equivalence of Fluctuations: Chemical Reactions (1976)

Folder 7: Stochastic Diffusions (n.d.)

Folder 8: Variational Principles in Nonequil. Thermo, MS (1976)

Folder 9: Master Eq., Lang. Eq., & Effect of Diffusion, MS (1977)

Folder 10: Volterra-Lotka Model, MS (1976)

Folder 11: Stochastic Processes, WORK I (n.d.)

Folder 12: Viscous Fluids, MS (1977)

Folder 13: Non-Equil. Steady States, MS (1976)

Folder 14: Biological transport (1977-78)

Folder 15: Mechanisms of Electrochem. Osc., MS (1977)

Folder 16: Hg Drop, MSII (n.d.)

Folder 17: Hermans/comment on B-motion/M.S. (correspondence, etc)
(1965, 1972-75)

Folder 18: Research Ideas (n.d.)

Folder 19: Multiple Steady State Problems (1971-78)

Folder 20: Second Law, MS (1976)

Folder 21: Static Quenching, MS (1982-83)

Folder 22: Nonlocal Hydrodynamic Fluct., MS (1982)

Folder 23: Diffusion Controlled Reaction, MS II (1982)

Folder 24: Mercury Drop—Reprints (1952, 1970-72)

Folder 25: Comment on Grossman-Landau, Lifshitz (1974-77)

Folder 26: Endocytosis: LDL receptors (1982)

Folder 27: Spatial Fluctuations, Hydrodynamics (1980-84)

BOX 33

Folder 1: Spatial Correlations, MS (1980)

Folder 2: Trapping by Static Sinks, MS (1983)

Folder 3: Gunn Effect, revised MS (1976-80)

Folder 4: Large Macromolecular Aggregates (1980)

Folder 5: T.L. Hill (1977)

Folder 6: Double Layers (1980)

Folder 7: Heat & Temperature at Steady States, WORK (n.d.)

Folder 8: Faculty Research Grant (1988-89)

Folder 9: Committee on Research (1990)

Folder 10: Contraction of Enzyme Fluctuations (n.d.)

Folder 11: Fractals (1986)

Folder 12: Steady State Thermodynamics (1984)

Folder 13: Nonequilibrium Thermodynamics (1975, 1980-83)

Folder 14: Reviews (1988-90)

- Folder 15: Faculty Research Grant (1990)
- Folder 16: Calc. Of Static Correlation Fxn, MS (1984-85)
- Folder 17: Heat, work, & Thermo, MS (1984)
- Folder 18: Diffusion Controlled Reactions, chapter (1984-86)
- Folder 19: Extended Irrever. Thermo. MS (1982)
- Folder 20: $A+X=B+X$ fluctuation (1971-72)
- Folder 21: Chem. Reviews, MS, Diff Controlled RX (1984-86)
- Folder 22: Vib.-Trans. Coupling, MS (1974)
- Folder 23: Endocytosis: Diffusion Effects, MS (1984-85)
- Folder 24: Diffusion Controlled RX, MS Accounts (1985)
- Folder 25: Electrochem. Osc. MS (1979-80)
- Folder 26: Hg Drop, MS II (1968-79)
- Folder 27: Thesis—1st Draft (n.d.)
- Folder 28: On a Time Depend. Theory of Hot Atom Reactions (1972)
- Folder 29: Gunn Effect, MS (1979-80)
- BOX 34
- Folder 1: Chem. 230C (winter 1981)
- Folder 2: Chem. 230C lectures (winter 1974)
- Folder 3: Chemistry 108, lectures (n.d.)
- Folder 4: NIH (1978-79)
- Folder 5: Chem. 1A lectures (1978)
- Folder 6: Chem. 110C lectures (winter 1975)
- Folder 7: Correspondence: Davis (1969-71)

Folder 8: Chem. 210C, (spring 1973-4)

Folder 9: Chem. 215 UCD, lectures (spring 1972)

Folder 10: Chem. 215 lectures (1972)

Folder 11: Statistical Thermo, UCSC, (1969)

Folder 12: Chem. 215, UCD (spring 1972)

Folder 13: Chem. 210A (fall 1985)

Folder 14: Chem. 230C, miscellaneous (winter 1981)

Folder 15: Chem. 210A lectures (fall 1981, 1984)

Folder 16: Chem. 230 handouts (winter 1981)

Folder 17: Chem. 230C (winter 1974)

Folder 18: Chem. 298 (n.d.)

Folder 19: Chem. 230C lectures (winter 1981)

Folder 20: Notes, Girandau, Quantum Mechanics (1966)

Folder 21: Figs., MS Nonlocal Fluctuations (n.d.)

Folder 22: Darwin-Fowler, MS (n.d.)

Folder 23: Correspondence (1979-82)

Folder 24: Figures—McQuarrie (n.d.)

Folder 25: Origin of Life (1970-78)

Folder 26: Electrochemical Osc, results, MS (n.d.)

Folder 27: Lectures, Chem. 210B (n.d.)

Folder 28: Chem. 230C Hill copy, transparencies (winter 1981)

Folder 29: Gunn Effect, references (1958-76)

Folder 30: Electrochemical Oscillations (1947, 1971-79)

Folder 31: Math 219 (1985-86)

BOX 35

Folder 1: Chem. 110C lectures (winter 1976)

Folder 2: Chem. 110C lists (winter 1990)

Folder 3: Grad. Student recruitment (1990-93)

Folder 4: Chem. 110C lecture notes (winter 1990, 1992)

Folder 5: Biophysics Graduate group (1982)

Folder 6: Oscillating Systems (1951, 1957, 1971-75)

Folder 7: Chem. 110C (winter 1992)

Folder 8: Metabolic Disorders, ref (1978)

Folder 9: Shear/Fluctuations II (1979-85)

Folder 10: Brownian Motion (1979-82)

Folder 11: Brownian Motion (1961-86)

Folder 12: Hot Atom Theory Reprints (1957, 1965-71)

Folder 13: Hydrodynamic Fluct. Ref II (1971-86)

Folder 14: Fluctuating Hydrodynamics III (1980-86)

Folder 15: Fluct. Hydrodynamics REF (1975-81)

Folder 16: Hot Atom (1967-78)

Folder 17: Guggenheim (1985)

Folder 18: Chem. 1B (winter 1991)

Folder 19: Extra Sheets (n.d.)

Folder 20: Figures, journal article (1990-91)

BOX 36

Folder 1: BioSci.10 lectures (1994)

Folder 2: BioSci.10 lectures (1994)

Folder 3: BioSci.10 quizzes (1996)

Folder 4: NPB 105, misc. handouts, (spring 1996)

Folder 5: NPB 105, grades, final project (spring 1996)

Folder 6: NPB 105, lecture handouts (spring 1996)

Folder 7: IUC proposal (1995)

Folder 8: NPB 105, grades (1998)

Folder 9: Homework No.8 (1996)

Folder 10: Miscellaneous Homework (1996)

Folder 11: Homework No. 7 (1996)

Folder 12: Handouts, Chem. 110C (1976)

Folder 13: Chem. 2B lectures (winter 1993)

Folder 14: Problems Sets—Chem. 110C (winter 1973)

Folder 15: Qualifying Exams (1990-91)

Folder 16: Chem. 1B lectures (winter 1991)

Folder 17: Sabbatical (1992-)

Folder 18: Chem. 110C problems (1977, 1990, 1992)

Folder 19: Chem. 107A lectures (fall 1985, 1986, 1988)

Folder 20: Chem. 110A (fall 1982)

Folder 21: Chem. 2B class lists, grades (winter 1993)

Folder 22: Qualifying Exams (1991-93)

Folder 23: Crystallographer Recruitment (1995-96)

Folder 24: NPB/NeuroBio. Search (1993-94)

Folder 25: NPB, Faculty/Staff (1994)

Folder 26: Thesis Committees (1992)

Folder 27: Correspondence (1989-91)

Folder 28: Keizer—Final Gr. (1991)

Folder 29: Faculty Recruitment Committee (1990)

Folder 30: Nominations Committee (1991-)

Folder 31: Keizer—correspondence (1991)

Folder 32: Transparencies for LIFE: The Science of Biology (1995)

Folder 33: Transparencies for LIFE: The Science of Biology (1995)

BOX 37

Box 1: Miscellaneous papers

Binder 1: Clausius, Beginning - Chapter VII

Binder 2: Clausius, Chapter VIII to end

Binder 3: Berlin Lectures (summer 1972)

Box 2: Keizer Publications (1978-CURRENT)

Folder 1: Chemistry 10

Folder 2: Chemistry 10 Lectures

Folder 3: Chemistry 10 DNA

Plus: (Unidentified items not in folders)

BOX 38

Folder 1: Critical Phenomena (1970-80)

- Folder 2: Meetings (summer 1981)
- Folder 3: Energy Changes at S.S. (n.d.)
- Folder 4: Hg Drop, MS II (1979)
- Folder 5: Private Correspondence (1972-77)
- Folder 6: Reed/Scott (1981-83)
- Folder 7: Path Integrals—Variational Principles (1961, 1973-76)
- Folder 8: Fig. Captions (n.d.)
- Folder 9: Figure Requests (1986)
- Folder 10: Remaining Figures (n.d.)
- Folder 11: Maxwell Constructions (1977-78)
- Folder 12: Book Outline (n.d.)
- Folder 13: New Figures (n.d.)
- Folder 14: Concentration Fluctuations, chemical reactions (n.d.)
- Folder 15: Chay-Keizer, K^+ oscillations, MS (1984-85)
- Folder 16: Mechanisms in Metabolism (n.d.)
- Folder 17: On the Macro. Equivalence, MS (1977)
- Folder 18: Kac, McKean, Kurt, Adv. in Math, MS (1984-86)
- Folder 19: Book-papers and calc. (1986)
- Folder 20: Submaster Eq. MS (1982)
- Folder 21: Coupling of Density & Energy Fluct., MS (1984)
- Folder 22: Random Walks (1959, 1973, 1983)
- Folder 23: Fluctuation Spectroscopy (1972-83)
- Folder 24: Graph Theory (n.d.)

Folder 25: Multiple Stationary States (1973, 1980-85)

Folder 26: Fluctuations/Extend Irrev. Thermo. WORK (n.d.)

Folder 27: Contraction of Stochastic Processes, WORK (1988)

Folder 28: Contractions of SGM Processes (1978-86)

Folder 29: Book Review (n.d.)

Folder 30: Oscillatory Phenomena (1983-86)

Folder 31: NIH (1986-87)

Folder 32: Disequilibrium and Rapid Bimolecular Chemical Reactions (n.d.)

Folder 33: Figures (n.d.)

Folder 34: Thermo. At Nonequilibrium Steady States (1978)

BOX 39

Folder 1: Ion Conduction/Fluctuations (1971, 1980-83)

Folder 2: Fox's Self-Consistency (1979-80)

Folder 3: Nonequil. Critical Points (1975-81)

Folder 4: Fluctuations at Instabilities (1977-83)

Folder 5: Chaos (1976-85)

Folder 6: Chemical Instabilities/Fluct. (1977-83)

Folder 7: Mangel (1968-81)

Folder 8: Craig Tracy (1987)

Folder 9: Reaction/diffusion (1980-83)

Folder 10: Fluctuations and Stochastic Processes (1980-85)

Folder 11: Fluctuating Hydrodynamics (n.d.)

Folder 12: Generalized Thermo./Kinetics (1977-84)

Folder 13: k-dependent diffusion (1975-83)

Folder 14: Mori and Scaling (1974-78)
Folder 15: McKean, Kac, and Kurtz (1979-80)
Folder 16: Experimental Oscillations (1961, 1973-83)
Folder 17: B.C. Eu (1981-83)
Folder 18: Dynamics of Critical points (1980-85)
Folder 19: Grant Application (1982)
D-336 Keizer, Joel. Papers.

Box 40:

Folder 1: Sebastian Bergling and Joel Keizer Correspondence
Folder 2: Sebastian Bergling and Joel Keizer Correspondence
Folder 3: Notes on Yellow notebook paper
Folder 4: Keizer's private correspondence
Folder 5: Information on Static Sinks
Folder 6: Diffusion Control Rotational Effects
Folder 7: A. Szabo
Folder 8: B-Cell Mitochondria
Folder 9: Paper on obtaining specific oligonucleotides from s-rna
Folder 10: Notes and papers on biological systems
Folder 11: Notebook of Joel Keizer's
Folder 12: Correspondence and journal articles
Folder 13: Notes
Folder 14: Graduate students report on Calcium Oscillations of a whole cell model
Folder 15: Mitochondrial modeling

BOX 40

Folder 1: Sebastian Bergling/ Joel Kaizer – 1998

Folder 2: Sebastien / Keizer – 1998

Folder 3: Misc.

Folder 4: Private Correspondence – 1980 – 90's

Folder 5: Static Sink – no date

Folder 6: Diffusion Control – Rotational Effects – no date

Folder 7: A. Szabo – no date

Folder 8: B- Cell Mitochondria – 1996

Folder 9: Preliminary Work on a method for obtaining specific oligonucleotides from s-RNA – 1964

Folder 10: Notebook of Joel Keizer – 1990's

Folder 11: Joel Keizer – 1990's

Folder 12: Mitochondrial Modeling Work – 1990's

Red Folder 1: Lab Rotational Report – Study of CICR-Dependent and IICR-Dependent Calcium Oscillations in a Whole Cell Model 1996

Gray Notebook 1: Joel Keizer Notes – 1961

Gray Notebook 2: Joel Keizer Notes – 1961

Brown Notebook 1: Joel Keizer Notes – 1971

Folder 13: Direct Transfer – 1990

Folder 14: One – Dimensional Reactions – 1987

Folder 15: Elect and Insulin Release B-Cell MD – 1980's

Folder 16: Back Reaction – 1990's

Folder 17: Master Eq, Langevin Eq, and Diffusion – no date

Folder 18: Critical Fluctuations – 1970's

Folder 19: ATP Sensitive Channel – no dates

Folder 20: Homogeneous Shear – 1980's

Folder 21: A. Robledo – 1980's

Folder 22: Submaster Equation – 1970's

Folder 23: Non-Equal Energy Distributions Work – no date

Folder 24: Homogeneous Shear Work – no date

BOX 41

Folder 1: Irreversible Thermodynamics – 1980's

Folder 2: Fox – 1980's

Folder 3: Statistical Mechanics – General – 1986

Folder 4: Nonequil Thermodynamics – 1980's

Folder 5: Misc. – 1990's

Folder 6: Finite Time Thermodynamics – 1980's

Publications – Joel Keizer – 1966 – 1999