
Guide to the James Langer papers UArch FacP 69

Finding aid prepared by Myra Delgado, 2019.

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Title: James Langer papers

Identifier/Call Number: UArch FacP 69

Contributing Institution: UC Santa Barbara Library, Department of Special Research Collections

Language of Material: English

Physical Description: 12.92 linear feet(10 cartons, 2 document boxes, 2 half document boxes, and 1 flat box)

Creator: Langer, James S.

Date (inclusive): 1955-2015

Date (bulk): 1970-1990

Abstract: Papers of James Langer, American professor of physics at the University of California, Santa Barbara. These papers include research files and publications, correspondence, clippings, handwritten lecture notes and calculations, and photographs from his academic career as a graduate student while earning his PhD at the University of Birmingham, England, to his professional career as a faculty member at Carnegie Mellon Institute, and as Director of the Institute for Theoretical Physics from 1985 to 1995. Materials also cover his time as President of the American Physical Society in 2000 and Vice President of the National Academy of Sciences from 2001-2005.

Language of Material: This collection is predominately in English, with some French and Russian.

Physical Location: Special Research Collections, UC Santa Barbara Library

Access Restrictions

This collection is open for research.

Use Restrictions

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Preferred Citation

[Identification of Item], James Langer papers, UArch FacP 69. Department of Special Research Collections, UC Santa Barbara Library, University of California, Santa Barbara.

Acquisition Information

Donated by James Langer, 2018.

Historical Note

"James S. Langer is Professor of Physics at the University of California at Santa Barbara. Born in Pittsburgh, Pennsylvania in 1934, Langer graduated from Taylor Allderdice High School in 1951. He attended Carnegie Institute of Technology and the University of Birmingham, earning a B.A. in physics from the former in 1955 and a Ph.D. in mathematical physics from the latter in 1958. A Marshall Scholar at Birmingham, his thesis advisor was Rudolf Peierls. After receiving his doctorate, he began his career in the Physics Department at the Carnegie Institute of Technology (which later became Carnegie Mellon University), where he would stay until 1982. He then joined UCSB's Institute for Theoretical Physics as professor. Between 1989 and 1995, he served as its director. According to his profile at UCSB, Langer's research focuses on theories of nonequilibrium phenomena, including the kinetics of phase transitions, pattern formation in crystal growth, the dynamics of earthquakes, and deformation and failure in noncrystalline solids. Langer served as President of the American Physical Society in 2000 and as Vice President of the United States National Academy of Sciences from 2001 to 2005. His awards include the APS's Oliver Buckley Prize in 1997." Wikipedia. 2019. "James S. Langer" https://en.wikipedia.org/wiki/James_S._Langer. Accessed on 11 December 2019.

Scope and Content

This collection contains files generated by James Langer throughout his academic career as a graduate student to his professional career as a physicist, with the bulk of the materials dating from 1970-1990. Materials include correspondence, research drafts and publications and office files related to Langer's academic research. In addition, the collection includes Langer's academic lecture notes and class curriculum, photographs, and newspaper clippings on his academic and professional achievements.

Arrangement

The collection has been organized into the following series: 1. Correspondence, 2. Research, 3. Professional Involvement, 4. Lecture and Teaching Notes, 5. Publicity.

Subjects and Indexing Terms

Clippings (information artifacts)
Correspondence
Lecture notes
Office files
Photographs
Publications (documents)
Research (documents)
Langer, James S. -- Archives
University of California, Santa Barbara. Department of Physics
University of California, Santa Barbara. Faculty

Correspondence 1955-2015

1955-1984

box 1, folder 1	Marshall and Burmingham
box 1, folder 2	Les Houches 1986
box 1, folder 3	Correspondences with Heine and Squires
box 1, folder 4	Physical Science Study Committee 1959-1961
box 1, folder 5	National Science Foundation (NSF) Fellowship 1960-1961
box 1, Folder 6	Fullbright, Denmark, Bell Labs 1960-1961
box 1, folder 7	National Science Foundation Contract Proposal 1962
box 1, Folder 8	Curriculum Revision 1965-1966
box 1, folder 9	Cornell Info and Correspondences 1965-1967
box 1, folder 10	NSF 1966-1967
box 1, folder 11	Organic Superconductors Conference 1969
box 1, folder 12	Superconductivity Conference, Stanford 1969
box 1, folder 13	Solvay Conference May 1969
box 1, folder 14	Correspondence 1961-1962
box 1, folder 15	Correspondence 1960
box 1, folder 16	Correspondences 1962-1963
box 1, folder 17	Correspondence 1963-1966
box 1, folder 18	Correspondence 1967-1968
box 1, folder 19	Correspondence 1968-1969
box 1, folder 20	Executive Committee Meeting 1969-1970
box 1, folder 21	Student Strike May 1970
box 1, folder 22	Faculty Senate Minutes (1/3) 1969-1970
box 1, folder 23	Faculty Senate Minutes (2/3) 1969-1970
box 1, folder 24	Faculty Senate Minutes (3/3) 1969-1970
box 1, folder 25	Carnegie Mellon University (CMU) Senate Chairman 1969-1970
box 1, folder 26	Fall, Construction - Bcc Events 1969
box 1, folder 27	Reorganization Advisory Committee Minutes, Records 1971-1972
box 1, folder 28	Seminar, Colloquia 1965-1972
box 1, folder 29	Van der Waals Conference 1973
box 1, folder 30	Fifth International Conference on Crystal Growth 1977
box 1, folder 31	Toronto 1977
box 1, folder 32	North Atlantic Treaty Organization (NATO) Research Institute 1975
box 1, folder 33	Correspondence 1969-1970
box 1, folder 34	Carnegie Institute of Technology (CIT) Reorganization 1969-1970
box 1, folder 35	Miscellaneous Correspondence 1971-1973
box 1, folder 36	STEVEER Committee 1970
box 1, folder 37	NSF Theory Institute 1971

1955-1984

box 1, folder 38	Temple 1974-1975
box 1, folder 39	Guggenheim Fellowship 1974-1975
box 1, folder 40	Miscellaneous Correspondence 1970-1971
box 1, folder 41	Miscellaneous Correspondence 1974-1975
box 1, folder 42	Miscellaneous Correspondence 1977-1978
box 1, folder 43	Refusenik Conferences 1977-1980
box 1, folder 44	Miscellaneous Documents and Presentations 1980
box 1, folder 45	NSF Materials Advisory Panel 1975
box 1, folder 46	Refusenik Meeting 1978-1980
box 1, folder 47	Moscow Meeting 1980
box 1, folder 48	Los Alamos Materials Advisory Committee 1982-1990
box 1, folder 49	Dendrite News Stories 1984

1988-1998

box 2, folder 1	India, January 1988
box 2, folder 2	Academic Senate Election, UCSB 1988
box 2, folder 3	Warsaw March 1988
box 2, folder 4	Dannie Heinman Prize 1988-1989
box 2, folder 5	NSF Committee on Program Balance 1989
box 2, folder 6	CMU Physics Advisory Board 1991-11-09
box 2, folder 7	Vannevar Bush Symposium 1991-03-19
box 2, folder 8	Cargese 1990
box 2, folder 9	Joel Lebowitz Birthday Symposium 1990-05-09
box 2, folder 10	Tarusa 1990
box 2, folder 11	United States Geological Survey (USGS) Proposals 1991-1992
box 2, folder 12	International Center for Theoretical Physics (ICTP) Trieste 1991-12
box 2, folder 13	NSF Nonlinear Literature 1991-11
box 2, folder 14	National Science Board (NSB) Commission 1992
box 2, folder 15	Misc. Correspondence 1982-1983
box 2, folder 16	UCSB Dean Search 1987-1988
box 2, folder 17	Misc. Correspondence 1988-1990
box 2, folder 18	Japan, Nishinomiya 1989
box 2, folder 19	Materials Research Advisory Committee (MRAC) Nonlinear Science 1992-05-07-1995-05-18
box 2, folder 20	Miscellaneous Correspondence 1991-1992
box 2, folder 21	Materials Research Society (MRS)/MIT 1991
box 2, folder 22	Earthquake Dynamics 1991
box 2, folder 23	Irvine
box 2, folder 24	California Coordinating Committee for Nonlinear Science (CCNLS) and Institutional Collaborative Research (NCOR) Review 1992
box 2, folder 25	National Material Science Conference 1992-05-18
box 2, folder 26	Harvard Business Review 1992-03
box 2, folder 27	June, Paris 1993
box 2, folder 28	Los Alamos National Library (LANL) Fractals/Fracture 1995-04-26
box 2, folder 29	Materials Research Work shop at Weizmann 1995
box 2, folder 30	Board on Physics and Astronomy (BPA) MTG, Irvine 1995-11-03
box 2, folder 31	International Centre of Condensed Matter Physics (ICCMP) 1989-1994
box 2, folder 32	NSF Centers/UCSB 1993-1994
box 2, folder 33	Refereej Reports 1988-1995
box 2, folder 34	National Academy of Sciences (NAS) Irvine Colloquium 1994-06-26
box 2, folder 35	Nordic Institute for Theoretical Physics (NORDITA) 1994
box 2, folder 36	Keio University Sendai 1994
box 2, folder 37	Science For Art 1994
box 2, folder 38	San Francisco, MRS 1993
box 2, folder 39	Review of National Research Council (NRC) Report on Math and Materials 1993
box 2, folder 40	UC LANL Institutional Collaborative Research (INCOR) 1993
box 2, folder 41	Santa Fe, April 1993

1988-1998

box 2, folder 42	NSF Presentation to Advisory Committee for Physics (ACP) 1993-05-10
box 2, folder 43	UC Econ Development Subcommittee 1993
box 2, folder 44	National Center for Atmospheric Research (NCAR) on Predictability and Chaos 1993
box 2, folder 45	American Academy / Rumford Committee 1994-1995
box 2, folder 46	Miscellaneous Correspondence 1992-1995
box 2, folder 47	University of Minnesota - Physics Dept. Review 1994
box 2, folder 48	Paul Review 1994
box 2, folder 49	University of Colorado Boulder, Physics Department Review 1994
box 2, folder 50	CMU Physics Advisory Board 1994
box 2, folder 51	Carnege Mellon Advisory Board 1999
box 2, folder 52	Carnege Mellon Advisory Board 2001
box 2, folder 53	Institute for Theoretical Physics (ITP) Stony Brook 1996
box 2, folder 54	Beijing 2006
box 2, folder 55	Travel 2007
box 2, folder 56	Travel 2008
box 2, folder 57	Travel 2009-2010
box 2, folder 58	Travel 2011-2014
box 2, folder 59	Peierls Memorial, University of Washington 1996-02-23
box 2, folder 60	Hong Kong 1996
box 2, folder 61	Vice Chancellor Research (VCR) Search 1995
box 2, folder 62	Materials Research Science and Engineering Center (MRSEC) and IRG Proposal 1995
box 2, folder 63	B. Kenny 1996
box 2, folder 64	Landau 1995
box 2, folder 65	James S. Langer (JSL) 60th 1995
box 2, folder 66	NSF Division of Materials Research (DMR) and Committee of Visitors (COV) 1996-04-08
box 2, folder 67	Carnege Mellon Advisory Board 1994
box 2, folder 68	Referee Reports 1995-2001
box 2, folder 69	Nishinomiya University 1996
box 2, folder 70	Modeling Workshop ITP 1996
box 2, folder 71	UC/Lab 1996
box 2, folder 72	Princeton Annual Conference 1996
box 2, folder 73	Gordon Research Conference 1997
box 2, folder 74	Toronto, Welsh Lectures, May 1997
box 2, folder 75	Canadian Physics Review 1997
box 2, folder 76	Buckley Prize Lecture 1996
box 2, folder 77	Brooklyn College 1997
box 2, folder 78	NORDITA 1997
box 2, folder 79	Institute for Polymers and Organic Solids (IPOS), March 1998

1998-2015

box 3, folder 1	University of Pennsylvania External Review of Committee 1999
box 3, folder 2	Misc. Recommendations 1994-1999
box 3, folder 3	Beijing 1999
box 3, folder 4	CMU Advisory Board 1999-2002
box 3, folder 5	Institute for Complex Adaptive Matter (ICAM) 1999
box 3, folder 6	Faculty Research Lecture 1999
box 3, folder 7	Trieste 2001
box 3, folder 8	Berlin - World Congress of Physics 2000
box 3, folder 9	August, Physics Survey Overview 2000
box 3, folder 10	India, October 2000
box 3, folder 11	Germany, March 2000
box 3, folder 12	APS Meeting 2000
box 3, folder 13	JSL - Faculty Research Lecturer 1999
box 3, folder 14	Physics Today Re-Publishing 2000

1998-2015

box 3, folder 15	Seoul National University 2005
box 3, folder 16	International Centre for Theoretical Physics (ICTP) 2005-2011
box 3, folder 17	Commonwealth Scientific and Industrial Research Organization (CSIRO) Review Australia 2005
box 3, folder 18	Chinese Academy of Sciences 2006
box 3, folder 19	Council for Higher Education: Israel 2006
box 3, folder 20	Curriculum Vitae 1981-2004
box 3, folder 21	City College of New York Review

1955-2013**Arrangement**

The materials in this box have been maintained in original alphabetical order.

box 4, folder 1	Ambegaokar 1996
box 4, folder 2	Anderson, W., P. 1987
box 4, folder 3	Barber, M. 1999
box 4, folder 4	Barbieri 1994
box 4, folder 5	Beenakker, C. 1986
box 4, folder 6	Ben-Jacob, E. 1987
box 4, folder 7	Bialek 1987
box 4, folder 8	Bonner 1974
box 4, folder 9	Bortz 1970
box 4, folder 10	Brezin, E. 1990
box 4, folder 11	Brown, G., E. 2013
box 4, folder 12	Cahn, J. 1973-1994
box 4, folder 13	Carlson, J. 2002
box 4, folder 14	Caroli, C. 1996
box 4, folder 15	Chandra, P. 2002
box 4, folder 16	Ching, E. 2007
box 4, folder 17	Cutkosky, R., E. 1993
box 4, folder 18	Datyre, K., V. 1998
box 4, folder 19	Dee, G. 1989
box 4, folder 20	de Gennes, P. G. 1984-1985
box 4, folder 21	Deutsch, J. 1985-1989
box 4, folder 22	Donley, P. J. 1987-2002
box 4, folder 23	Dgoulass, K. 1964-1974
box 4, folder 24	Edwards, S. F. 1983-1995
box 4, folder 25	Falk, M. 1989-1999
box 4, folder 26	Fisher, M. 1983
box 4, folder 27	Freehof, R. S. 1981
box 4, folder 28	Frischknect, A. 1998-1999
box 4, folder 29	Friedel, J. 2009-2010
box 4, folder 30	Goldenfield, N. 1981-2000
box 4, folder 31	Goldstein, R. 1994-2001
box 4, folder 32	Hasley, T. 1984-1999
box 4, folder 33	Heeger (nomination) 1991-1999
box 4, folder 34	Hohenberg, P. C. 1994
box 4, folder 35	Hong, D. 1995
box 4, folder 36	Hunt, D. J. 1989-1990
box 4, folder 37	Karma, A. 1984-1994
box 4, folder 38	Kawasaki, K. 1993
box 4, folder 39	Kirkaldy, S. J. 1989
box 4, folder 40	Knapp, R. 1970-1972
box 4, folder 41	Kohn, W. 1994-2016
box 4, folder 42	Kotliar, B. G. 1984-1988
box 4, folder 43	Kubin 2009
box 4, folder 44	Kurtze, D. 1972-1990

1955-2013

box 4, folder 45	Landauer 1981-1999
box 4, folder 46	Langer, S. 1992-2001
box 4, folder 47	Lebowitz, J. 1982-1992
box 4, folder 48	Leibig 1996
box 4, folder 49	Levich, E. 1978
box 4, folder 50	Lieb, E. 1969
box 4, folder 51	Lightman, A. 1984
box 4, folder 52	Levine, D. 1988
box 4, folder 53	Lobkovsky, A. 1998-2000
box 4, folder 54	Lofstedt, R. 1999
box 4, folder 55	Londergan, D. 1974
box 4, folder 56	Marder, M. 1994-1997
box 4, folder 57	Mudrick, L. 1994
box 4, folder 58	Myers, C. 1991-1993
box 4, folder 59	Muller-Krumbhaar, H. 1997
box 4, folder 60	Nakanishi, H. 1955-1996
box 4, folder 61	Nakanishi, H. 1993
box 4, folder 62	Pechenik, L. 2001-2004
box 4, folder 63	Peierls, R. 1983-1997
box 4, folder 64	Pieters, R. 1993
box 4, folder 65	Ramanathan, S. 1994-1999
box 4, folder 66	Correspondences with Rico, J. 1995
box 4, folder 67	Rice, J. 1979-1992
box 4, folder 68	Schwartz
box 4, folder 69	Sekerka, R. 1963-2003
box 4, folder 70	Sethna 1985-1995
box 4, folder 71	Shaw, B. 1990-2000
box 4, folder 72	Sivashinsky, G. 1981-1982
box 4, folder 73	Smith, J. 1969-1980
box 4, folder 74	Thomson, R. 1995
box 4, folder 75	Tang, C. 1996
box 4, folder 76	Turski, L. 1982-1999
box 4, folder 77	Turski, L. 1982-1999
box 4, folder 78	van Saarloos 1986
box 4, folder 79	van Suchtelen 1981
box 4, folder 80	Warren, J. 1998
box 4, folder 81	Zittartz, J. 1981

1981-1999**Arrangement**

The materials in this box have been maintained in original alphabetical order.

box 5, folder 1	Turski, L. (1/2) 1982-1999
box 5, folder 2	Turski, L. (2/2) 1982-1999
box 5, folder 3	Van Saarloos 1986
box 5, folder 4	Van Suchtelen 1981
box 5, folder 5	Warren, J. 1998
box 5, folder 6	Zittartz, J. 1983
	Research Files 1958-2000

1958-2009

box 6, folder 1	J.S. Langer PhD Thesis, Birmingham 1958
box 6, folder 2	Academic Articles 1989-2009
box 6, folder 3	Academic Articles 1985-1989
box 6, folder 4	Academic Articles 1978-1985

1958-2009

box 6, folder 5	Academic Articles 1964-1977
box 6, folder 6	Academic Articles 1955-1963
box 6, folder 7	Academic Articles at Carnegie Mellon University 1950-1969
box 6, folder 8	Academic Articles at Carnegie Mellon University 1970
box 6, folder 9	Academic Articles at UCSB (1/3) 1980
box 6, folder 10	Academic Articles at UCSB (2/3) 1980
box 6, folder 11	Academic Articles at UCSB (3/3) 1980
box 6, folder 12	Academic Articles at UCSB 1990-2000
box 6, folder 13	Impurity-Resistance Manuscripts
box 6, folder 14	Eutectic Solidification and Marginal Stability 1980
box 6, folder 15	Published Academic Articles (1-50)
box 6, folder 16	Published Academic Articles (51-110)

1955-1960

box 9, folder 1	Thesis Manuscripts Birmingham: Correspondence with Brown, Optical Model 1958
box 9, folder 2	Thesis Manuscripts Birmingham: Article Drafts
box 9, folder 3	Thesis Manuscripts Birmingham: Lamb Shift 1955-1956
box 9, folder 4	Thesis Manuscripts Birmingham: Article Drafts 1956
box 9, folder 5	Friedel Sum Rule 1960
box 9, folder 6	Article Drafts
box 9, folder 7	Nucleon Motion in Rotating Average Potential, J.G. Valatin

1963-1995

box 7, folder 1	Functional Methods in Superconductivity 1963
box 7, folder 2	Random Potential
box 7, folder 3	Bound State in Random Potential Manuscript 1966
box 7, folder 4	Relaxation in Weiss Ferromagnet 1965-1966
box 7, folder 5	Theory of the Condensation Point Manuscript 1966
box 7, folder 6	Balian - Analytic Properties of the Partition Function for Superconduction 1962
box 7, folder 7	Many Fermion Problem Manuscript 1961
box 7, folder 8	Impurity Resistance II 1961
box 7, folder 9	Evaluation of Kubo's Formula for the Impurity Resistance of an Interacting Electron Gas 1962
box 7, folder 10	Nucleation Rate 1968
box 7, folder 11	Surfaces - Zittartz 1966
box 7, folder 12	Fluctuations in Superconductors 1967-1968
box 7, folder 13	Resistive Anomalies at Magnetic Critical Prints 1967-1968
box 7, folder 14	Decay of Super-flow Review Papers 1968
box 7, folder 15	Critical Velocity in Liquid Helium - Fisher 1967-1968
box 7, folder 16	Low Temperature 1968
box 7, folder 17	Superconductivity in Narrow Channels, March 1968
box 7, folder 18	Hopping Conductivity in Amorphous Semiconductors 1969-1970
box 7, folder 19	Manuscript: Decay of Metastable States, January 1969
box 7, folder 20	Coherent States II 1969
box 7, folder 21	Spinodal Decomposition 1970
box 7, folder 22	Metastable States: Vander Waal Conference Manuscript 1974
box 7, folder 23	Spinodal Decomposition Summary Manuscript 1973
box 7, folder 24	Spinodal Decomposition Phase Space-Cell Method 1972
box 7, folder 25	Moving Interference - Diffusion Couple 1975
box 7, folder 26	Interfacial Stability I and II 1977
box 7, folder 27	Evidence for a Universal Law of Dendritic Growth Rates, April 1978
box 7, folder 28	Computational Method in Spinodal Decomposition 1974
box 7, folder 29	Encyclopedia of Materials Science and Engineering 1980
box 7, folder 30	Instabilities and Pattern Formation in Crystal Growth 1979
box 7, folder 31	Phase-Field Model 1978

1963-1995

box 7, folder 32	Propagating Pattern Selection, December 1982
box 7, folder 33	Dynamics of Interfacial Pattern Formation 1983
box 7, folder 34	Pattern Propagation 1983-1984
box 7, folder 35	Chiral Solidification 1984
box 7, folder 36	Glauber Symposium 1985-10-19
box 7, folder 37	Solvability Condition 1985
box 7, folder 38	Noise-Driven Side Branching 1986
box 7, folder 39	Velocity Selection Symmetric Model, June 1986
box 7, folder 40	Dendritic Solidification 1986
box 7, folder 41	Saffman-Taylor Problem 1986
box 7, folder 42	Statistic Physics 16 1986
box 7, folder 43	Ma Memorial: Direction on Condensed Matter Physics 1988
box 7, folder 44	Pattern Selection 1987
box 7, folder 45	Dendritic Side Branching 1987
box 7, folder 46	Dendrite 1989
box 7, folder 47	Science: Dendrites, Vicious Fingers 1989
box 7, folder 48	Properties of Earthquakes 1989
box 7, folder 49	Timer Intervals 1991
box 7, folder 50	Quiberon August 1989
box 7, folder 51	Quiberon Lecture Notes 1988
box 7, folder 52	Slides and Photographs 1984
box 7, folder 53	Photographs
box 7, folder 54	References and Letters of Recommendations 1983-1991
box 7, folder 55	Dynamics of Earthquake Faults, RMP
box 7, folder 56	Stability Limit 1994-1995

1990-2000

box 8, folder 1	Miscellaneous Presentations 1983-2012
box 8, folder 2	Fracture/Miscellaneous Reprints
box 8, folder 3	Physics Today - RF - Glass Transitions 2007-02
box 8, folder 4	Public Lectures in Pattern Foundation (PLTP) Transparencies
box 8, folder 5	Department of Energy (DOE) Workshop
box 8, folder 6	The National Academies
box 8, folder 7	American Physical Society (APS) Tampa
box 8, folder 8	Kavli Institute for Theoretical Physics (KITP) Future of Physics
box 8, folder 9	Lectures in Fractures, Plasticity and Earthquakes
box 8, folder 10	Routes from Microscales to Macroscales in Theories of Deformation and Fracture, Beijing Symposium, June
box 8, folder 11	MRL Reverse Site Visit
box 8, folder 12	Changing World of Physics Talk October
box 8, folder 13	The Impact of John W. Cahn Talk
box 8, folder 14	Solid State Sciences Committee Forum
box 8, folder 15	International Theoretical Physics Public Lecture, May
box 8, folder 16	Non-equilibrium Physics and the Origins of the Complexity in Nature
box 8, folder 17	Pattern Formation in Dendritic Crystal Growth Brooklyn College Match
box 8, folder 18	Shear-Transformation-Zone Theory Dynamics Unknown
box 8, folder 19	Necking Physical Review Letter Unknown
box 8, folder 20	Faculty Research Lecture Unknown
box 8, folder 21	Nordita, November Unknown
box 8, folder 22	Cohesive Zone Models with Lobkovsky Unknown
box 8, folder 23	19th Annual International Conference: "Complex Adaptive Matter" Unknown
box 8, folder 24	NSF Mathematical and Physical Sciences (MPS) Advisory Committee, April Unknown
box 8, folder 25	Recent Developments in the Theory of Pattern Formations Unknown
box 8, folder 26	Los Alamos Conference on Nonlinearity Unknown
box 8, folder 27	Extras 1994
box 8, folder 28	Slip Complexity (Myers, Shaw, and JSL) 1995-1996

1990-2000

box 8, folder 29	Pattern Formation in Nonequilibrium Physics 1997
box 8, folder 30	Physics Today: What Future for Physics 1995-12
box 8, folder 31	Physics Today: Strategic Research 1995-04
box 8, folder 32	Physics Review Letters CLN Unknown
box 8, folder 33	Physics Today 2000
box 8, folder 34	Physics Today/Reference Frame 1999
box 8, folder 35	International Union for Theoretical and Applied Mechanics (IUTAM) Symposium/Sam Edwards Meeting - Cambridge Unknown
box 8, folder 36	National Academy of Sciences (NAS) Earthquake Symposium 1999-02
box 8, folder 37	Models of Crack Propagation 1995-02
box 8, folder 38	Prediction of Dendritic Spacings 1992
box 8, folder 39	Physics Today on Materials Research 1992
box 8, folder 40	Adiabatic Spinodal Decomposition in Critical Binary Fluids PRL with Donley
box 8, folder 41	Dynamic Model of Fracture 1993
box 8, folder 42	Quark-Hadron Phase Transition with Adams and Freese
box 8, folder 43	Rupture Propagation PRL with C. Tang Unknown
box 8, folder 44	Patterns of Seismic Activity 1991
box 8, folder 45	Intrinsic Properties or a Burridge-Knopoff Model with Carlson, Shaw and Langer 1990
box 8, folder 46	Physics Today Articles 1990
box 8, folder 47	Dendritic Arrays Warren and Langer 1990

Professional Involvement 1989-2005

Correspondence and Reports 1989-2005

Scope and Contents

This box contains correspondence letters and reports while James Langer served as the director for the Institute for Theoretical Physics, Vice President of the National Academy of Sciences, and as President of the American Physical Society.

box 10, folder 1	ITP Publicity 1993-1994
box 10, folder 2	ITP Site Visit Reviews 1994
box 10, folder 3	ITP Miscellaneous Correspondences 1989-1992
box 10, folder 4	ITP Director 1989
box 10, folder 5	APS Presidential Address 2001
box 10, folder 6	APS Presidential Election 1997
box 10, folder 7	APS and AIP 1987
box 10, folder 8	APS National Missile Defense Committee 2000
box 10, folder 9	Visas, February 2004
box 10, folder 10	NAS Vice President 2001-2005
box 10, folder 11	Kavli Frontiers of Science Symposia Proposal 2004-2005
box 10, folder 12	Communications Review
box 10, folder 13	NAS Counter Terrorism Report 2001-2002
box 10, folder 14	National Research Council (NRC) Liaison 2002
box 10, folder 15	NAS VP Election Correspondence 2001
box 10, folder 16	Koshland Science Museum 2002

Proposals 1984-2001

Scope and Contents

This box contains proposal files and born digital material

box 11, folder 1	Trends and Opportunities in materials Research 1984
box 11, folder 2	Advances Scientific Computation NSF-DOE 1998
box 11, folder 3	Advances Scientific Computation NSF-DOE 1998
box 11, folder 4	Science of Earthquakes Committee 1996
box 11, folder 5	Board on Engineering Education 1991-1994

box 11, folder 6	NRC Panel on Seismic Hazard 1991-1994
box 11, folder 7	Condensed-Matter and Materials Physics Study 1994-1998
box 11, folder 8	Solid State Sciences Committee (SSSC) 10/04/2001
box 11, folder 9	SSB Report (Major Directions) 1985-1986
box 11, folder 10	Materials Science and Engineering (MSE) 1989-12-20
box 11, folder 11	Materials Science and Engineering "National Agenda" 1990-1991
box 11, folder 12	NAS Policy Briefing Panel 1987
box 11, folder 13	Materials Chapter and Physics Survey 1984-1986
box 11, folder 14	SSSC Firrum 09/26/1989
box 11, folder 15	Materials Science and Engineering 1988
box 11, folder 16	MSE II Drafts 1988
box 11, folder 17	MSE Panel 1987
box 11, folder 18	MSE Committee
	Lecture and Teaching Notes 1957-2000

1957-1981

box 12, folder 1	Many Body Course, Fall 1980
box 12, folder 2	Physical Mechanics, Spring 1976
box 12, folder 3	Quantum Mechanics I, Fall 1979
box 12, folder 4	Quantum Mechanics II 1977-1979
box 12, folder 5	Physical Mechanics I, Fall 1975
box 12, folder 6	Physical Mechanics I 1974
box 12, folder 7	Many-Body Physics, Spring 1972
box 12, folder 8	Theory of Solids, Fall 1970
box 12, folder 9	Solid State Theory 1963-1964
box 12, folder 10	Many-Body Theory 1969
box 12, folder 11	Statistical Mechanics 1965-1981
box 12, folder 12	Honors Section, Spring 1970
box 12, folder 13	Physical Mechanics, Fall 1964-1965
box 12, folder 14	Atomic Physics, Spring 1966
box 12, folder 15	Classical Mechanics, Fall 1966
box 12, folder 16	Special Topics Course: Phase Transitions 1967
box 12, folder 17	Statistical Mechanics, Spring 1965
box 12, folder 18	Physical Analysis, Fall 1967
box 12, folder 19	Relativity, Fall 1955
box 12, folder 20	Many-Body Notes
box 12, folder 21	S.S. Discussion Group and Lecture Notes, Fall 1961
box 12, folder 22	Lecture Notes: Transport Theory 1960
box 12, folder 23	Classical Mechanics - 2nd Semester, Spring 1960
box 12, folder 24	Classical Mechanics - 1st Semester, Fall 1958
box 12, folder 25	PEIERLS - Statistical Mechanics 1956-1957

1955-1974

box 13, folder 1	C.I.T. Cutosek's Lectures on Dispersion Theory 1960-1961
box 13, folder 2	Kohn: Solid-State Theory 1959
box 13, folder 3	Brezin: Critical Phenomena (Harvard) 1974
box 13, folder 4	Analyticity
box 13, folder 5	C.I.T. Seminar Notes 1959-1960
box 13, folder 6	Department of Mathematical Physics, University of Birmingham 1956
box 13, folder 7	Nuclear Theory Notes: Professor Peierls and Meson Theory Notes: Dr. Dalitz at Birmingham 1955

1986-2001

Scope and Contents

This box contains assignments in addition to teaching notes.

box 14, folder 1
box 14, folder 2
box 14, folder 3
box 14, folder 4
box 14, folder 5
box 14, folder 6
box 14, folder 7
box 14, folder 8
box 14, folder 9
box 14, folder 10
box 14, folder 11
box 14, folder 12
box 14, folder 13
box 14, folder 14
flat-box 15

217A Many-Body Theory (1/2), Winter 1986

217A Many-Body Theory (2/2), Winter 1986

Concepts of Modern Physics, Spring 1981

Lecture Notes: Superconductivity

Physics 219 (1/2)

Physics 219 (2/2)

Physics 223B

Physics 3H, Fall 1998

Physics 1H, Winter 2000

Physics 2H, Spring 2000

P223 Condensed Matter 2001

Physics 220: Statistical Mechanics 2001

Physics 119: Statistical Mechanics, Spring 1988

Physics 220: Statistical Mechanics, Spring 1998

Publicity 1980-2001

Scope and Contents

Contains newspaper articles on James Langer's academic achievements.