
Finding Aid for the R.A. Marcus Papers 1951-2001

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Descriptive Summary

Title: R.A. Marcus Papers,

Date (inclusive): 1951-2001

Collection number: 10227-MS

Creator: Marcus, R. A. 1923-

Extent: 20 linear feet

Repository: California Institute of Technology. Caltech Archives
Pasadena, California 91125

Abstract: The working papers, correspondence, publications, and biographical material of chemist Rudolph A. Marcus form the collection known as the R. A. Marcus Papers in the California Institute of Technology Archives. Marcus is best known for his contributions to the theory of electron transfer reactions in chemical systems, for which he won the 1992 Nobel Prize in chemistry.

Physical location: Archives, California Institute of Technology.

Language of Material:

Languages represented in the collection:

English

Access

The collection is open for research with the exception of the following files: 2.4, 6.37, 40.10, 19.12, 20.5, and boxes 10-11, and 16, that are closed due to their personal confidential matters. Researchers must apply in writing for access.

Publication Rights

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Preferred Citation

[Identification of item], R.A. Marcus Papers, 10227-MS, Caltech Archives, California Institute of Technology.

Acquisition Information

The papers were donated to the Caltech Archives by Rudolph A. Marcus himself in 1998 and were physically transferred to the Archives on January 6, 2005.

Biography

Chemist Rudolph A. Marcus received the Nobel Prize in chemistry in 1992 for "his contributions to the theory of electron transfer reactions in chemical systems." The Marcus theory sheds light on diverse and fundamental phenomena such as photosynthesis and cell metabolism, and serves as the basis for all subsequent theoretical developments in the field of chemical reaction rates.

Marcus was born in Montreal, Canada on July 21, 1923. He received his B.Sc. in chemistry from McGill University in 1943. Upon receiving his Ph.D. from McGill University in 1946, he was accepted to the postdoctoral program at the National Research Council of Canada in Ottawa, conducting experimental research with E.W.R. Steacie on gas phase reactions. In 1949 he became a postdoctoral fellow at the University of North Carolina, conducting theoretical research with O.K. Rice, formulating the RRKM theory [Rice-Ramsperger-Kassel-Marcus] of unimolecular reactions.

In 1951 he joined the faculty of the Polytechnic Institute of Brooklyn and subsequently developed the theory of electron transfer reactions in solutions and at various interfaces. In 1964 he became Professor of Physical Chemistry at the University of Illinois and was later head of its Division of Physical Chemistry. Marcus joined the faculty of the California Institute of Technology in 1978 as Noyes Professor of Chemistry, a position he has held since then.

Marcus's research has covered a variety of other areas in physical chemistry, including reaction coordinates and Hamiltonians, semi-classical theory of collisions and of bound states, intramolecular dynamics, and nuclear tunneling paths in reactions.

Throughout his scientific career, Marcus managed to be active in a variety of societies and professional organizations. He served as a member and then as chairman of the National Research Council-National Academy of Sciences Committee on Kinetics of Chemical Reactions (1973-1977), and as a member and co-chairman of the Executive Committee of the American Academy of Arts and Sciences (1979-1984). He also served as a member of the Presidential Chairs Committee,

Republic of Chile, during 1994-1996, and as an advisor to the Chinese Academy of Sciences since 1995.

Marcus has received numerous honors in addition to the Nobel Prize. These include the Wolf Prize in Chemistry (1985), the National Medal of Science (1989), the Joseph Hirschfelder Prize in Theoretical Chemistry (1993), and various American Chemical Society awards such as: Langmuir Award in Chemical Physics (1978), Gibbs Medal (1988), Richards Medal (1990), Linus Pauling Award (1991), Remsen Award (1991), the Edgar Fahs Smith Award (1991), and many others. He is also the recipient of a number of honorary degrees of Doctor of Science from several U.S. universities and foreign universities as well.

Marcus's work has been recognized with his election to the National Academy of Sciences in 1970 and the American Academy of Arts and Sciences in 1973. He is a member of the American Philosophical Society since 1990, and a member of its Council since 1999. He is an honorary member of the International Society of Electrochemistry (1994), a foreign member of the Royal Society of London (1987), a member of the Chinese Academy of Sciences (1998), a foreign fellow of the Royal Society of Canada (1993), and an honorary member of the Korean Chemical Society (1996).

Scope and Content

The Marcus collection is composed of six series, organized in forty-one archival boxes. The correspondence, Series 1, makes up about a third of the collection and ranges from the early 1960s to 2001. It contains both incoming and outgoing correspondence organized in alphabetically ordered folders.

Series 2 contains material that relates directly to the California Institute of Technology. This series deals with the Division of Chemistry and Chemical Engineering, as well as various other institutional matters.

Teaching materials such as course and lecture notes, class assignments, and exams, were placed within Series 3. This series contains teaching material from the 1970s during Marcus's time at the University of Illinois at Urbana-Champaign, and the 1980s and 1990s at Caltech.

Marcus's research files, Series 4, are subdivided into three categories. The first subseries contains grant proposals Marcus submitted while at the University of Illinois at Urbana-Champaign, and at Caltech. The second subseries contains technical reports written while at the Polytechnic Institute of Brooklyn, and the last subseries contains only a few manuscripts written in the early 1950s to the late 1980s.

Marcus's travel files were organized within Series 5. They include his talks and lectures in conferences and meetings. A wide variety of talk-related documents, from talk outlines and notes to related correspondence, are all organized in chronological order.

Series 6 contains a small amount of biographical material. Researchers should note that the Nobel Prize material has not yet been deposited in the Archives.

The collection is organized into the following series:

- Series 1. Correspondence
- Series 2. California Institute of Technology
- Series 3. Teaching
- Series 4. Research files
- Series 5. Talks, Conferences, and Meetings
- Series 6. Biographical

Related Material

Researchers should also refer to Marcus's oral history interview, conducted by Shirley K. Cohen in 1993, which is deposited in the Caltech Archives.

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog.

Subjects

California Institute of Technology
Chemical reactions
Chemistry
Chemistry, Physical and theoretical

Occupations

Chemists
Nobel Prize winners

Series 1. **Correspondence**

Box 1, Folder 1	Albery, W. J. 1976, 1978, 1982, 1988, 1993
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Box 1, Folder 4	American Chemical Society 1964, 1981-1983, 1985-1989, 1991-1992
Box 1, Folder 5	American Institute of Physics 1980, 1982, 1988
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Box 1, Folder 7	Andreen, Brian 1985, 1987
Box 1, Folder 8	Annual Reviews of Physical Chemistry 1963-1964, 1978, 1980-1981, 1984, 1987
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Box 1, Folder 11	Ariel, Magda 1981-1983, 1985
Box 1, Folder 12	Arvia, Alejandro J. 1983
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	Abruna, H. D. 1986
	Academic Press 1978-1979, 1984
	Accounts of Chemical Research 1987
	Ackerhalt, J. and H. Galbraith 1982
	Acrivios, Andreas 1991
	Adams, Ralph 1989
	Adamson, Arthur 1984
	Adelman, Steven A. 1982
	Adelstein, Robert S. 1979
	Agmon, N. 1979-1980
	Aklonis, J. J. 1991
	Albee, Arden L. 1987, 1991
	Alexandrowicz, Z. 1961
	Ali, M. Keramat 1985
	Alivisatos, Paul 1987-1988
	American Association for the Advancement of Science 1978
	<i>American Scientist</i> 1985
	Andersen, Hans 1988
	<i>Annals of the New York Academy of Sciences</i> 1980
	Anslyn, Eric 1983
	Aotani, Masayasu 1981
	Armstrong, Fraser 1994
	Arndt, Sara 1986
	Arnett, Edward M. 1985, 1989
	Arnold, Craig James 1985
	Arntzen, Charles 1982
	Ashenhurst, Robert L. 1983
	Astruc, Didier 1987
	Auerbach, Dan 1989
	Austin, R. H. 1984
	Ayers, William 1980-1981
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B Miscellaneous**Scope and Content Note**

Baglin, Frank G. 1989
 Bailey, Jay 1989
 Bain, Marilyn 1977
 Baldeschwieler, J. D. 1988, 1990
 Ballhausen, Carl 1979
 Baltscheffsky, Margareta 1988-1989
 Bandarage, G. 1987
 Bandrauk, André 1986
 Banerjee, Kalyan 1981
 Banks, Martha O. 1980
 Barany, Anders 1978
 Barker, John R. 1989
 Barkley, Mary D. 1989
 Barton, Jacqueline K. 1989-1990
 Basolo, Fred 1983, 1988
 Bass, Robert P., Jr. 1968
 Batinić-Haberle Ines, Mrs. 1989
 Baym, Gordon 1982
 Bear, John L. 1980
 Beauchamp, J. L. 1990
 Becker, Ernie 1985, 1987-1988
 Behr, Barbara 1983
 Bell, R. P. 1982
 Bell, Tom N. 1978
 Bengal, Eli 1995
 Benjamin, Ilan 1992
 Ben-Reuven 1978
 Benzer, Seymour 1991
 Bercaw, John E. 1979
 Bergman, Robert G. 1985
 Berman, R. 1985
 Bernasconi, Claude F. 1981
 Bernhard, Silke 1978
 Bernholc, Jerzy 1982
 Berry, Michael V. 1982
 Berry, Steve 1989
 Bertie, J. E. 1980
 Berwanger, Patrick C. 1981
 Bilski, Piotr 1988
 Birnbaum, Eric 1983
 Blackwell Scientific Publications Ltd. 1985
 Blaisten-Barojas, Estela 1990
 Bland, C. J. 1985
 Blandford, Roger 1989
 Blankenship, Robert E. 1988
 Blaylock, R. L. 1989
 Blukis, Uldis 1979
 Board of Control 1989
 Bocarsly, A. B. 1983
 Boehm, Randall C. 1990
 Bolton, J. R. 1988
 Bonner, Lyman G. 1985, 1987-1988
 Boomer Lectures 1982
 Borman, Stu 1990
 Bowers, Michael T. 1981, 1984-1985
 Bowman, Joel 1990
 Boyer, Ernest L. 1984

Bozhkov, Chr. 1990
 Brady, J. F. 1986
 Brauman, John I. 1985
 Bretthauer, Roger K. 1982
 Brillson, Leonard J. and Frank Lovecchio 1991
 Brookhaven National Laboratory 1985
 Brooks, Charles L., III 1981, 1989

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Cady, W. A. 1978, 1987
Casati, Guilio 1982-1983
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Chance, Britton 1982, 1985, 1987, 1991
Chandler, David 1988-1991, 1993-1996
Chanon, Michel 1989, 1991
***Chemical and Engineering News* 1983, 1987**
***Chemical Kinetics* 1981**
***Chemical Physics* 1982, 1985, 1989**
***Chemical Physics Letters* 1982-1990**
***Chemical Physics Letters* 1991**
***Chemical Physics Letters* 1993-1995**
Child, Mark 1978-1979, 1983, 1986-1988, 1990
Chiu, Ying-Nan 1995, 1997
Chu, Shih-I 1980-1981
Ciaccio, Leonard L. 1988, 1992-1993, 1996
Clarke, Michael J. 1986-1988
Closs, Gerhard 1984, 1986, 1989
Connor, Jonathan N. L. 1978, 1982-1983, 1985-1986
Cotton, Therese M. 1996
Cruikshank, Alexander M. 1981, 1985-1988, 1993

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Canel, Eric 1983
 Cannon, Roderick D. 1985
 Carmeli, Benjamin 1987-1988
 Carr, Robert W., Jr. 1978
 Carroad, Paul 1990
 Carter, James W. 1987
 Caston, Geoffrey 1976
 Cathcart, Silas S. 1978
 Cavanaugh, Edward F. 1964
 Cavelier, German 1994-1995
 Cerny, Joseph 1978-1979
 Chakravarty, Charusita 1989-1990
 Chan, Sunney I. 1995
 Chan, T. H. 1987
 Chandra, Amalendu 1990
 Chang, Britton 1982
 Chang, C. T. 1989
 Chang, Clarence D. 1996
 Chang, David C. 1995
 Cheng, Frank 1987
 Cheng, Hansong 1990
 Chernenko, Konstantin U. 1984
 Chesick, John P. 1980
 Chipman, Daniel 1988
 Cho, K. C. 1990
 Cho, Seon-Woog 1989
 Christov, S. G. 1980
 Claesson, Stig 1976
 Clardy, Jon C. 1990
 Clark, Allen H. 1978
 Clary, David C. 1983-1984
 Clayton, Roderick 1979
 Clementi, Enrico 1980-1981, 1990
 Cole, Robert G. 1981
 Collins, Margaret 1986
 Collman, James 1989
 Colson, Steven D. 1982
 Coltrin, Michael E. 1978, 1981
 Committee of Concerned Scientists, Inc. 1978
 Compton, R. G. 1983
 Connolly, John 1988
 Controller 1985
 Conway, Brian E. 1979, 1983, 1987
 Cook, Jeffrey A. 1980
 Cooper, N. J. 1990
 Corngold, Noel 1982
 Corrigan, Dennis 1977
 Cotton, F. A. 1990
 Coury, Louis A., Jr. 1991
 Cowan, James A. 1990
 CRC Press 1978
 Cramer, William H. 1981
 Crawford, Bryce A., Jr. 1978, 1980
 Creager, Stephen E. 1992
 Creswick, Richard 1983
 Cross, R. James, Jr. 1981
 Crothers, Donald M. 1980
 Crow, Jack 1991
 Cukier, R. A. 1985
 Curl, Robert F. 1979, 1988
 Curtiss, C. F. 1979

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De Leon, Nelson H. 1981, 1984
Delahay, Paul 1981, 1985
Di Giacomo, Francesco 1980, 1990
Dodson, R. W. 1963, 1982
Doll, Jimmie D. 1988, 1990
Drickamer, Harry G. 1978, 1982-1983, 1985-1987, 1989, 1994-1995
Dutton, Leslie 1992
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Dahlin, Stefan 1984
Dajian, Li 1989
Dalbey, Ross E. 1990
Dall'Asta, Eberhard R. 1988
Dan, Pnina 1980
Dannhauser, Walter 1968
Davidson, Ernest 1987
Davidson, Norman 1988
Davis, Janet 1986
Davis, Raymond, Jr. 1982
Davison, S. G. 1986
Deane, H. W. 1975
Deisenhofer, Johann (Hans) 1989
DeLaughter, Kay 1978
De Marco, Ronald A. 1990
de Ruiten, Arie P. 1981
Dervan, Peter 1985, 1987, 1990
Deutch, John 1989
Deutsch, Robert 1979
Devault, Don 1978
Diestler, Dennis J. 1990
di Lullo, Mario 1977
Dismukes, Charles 1989
Ditchfield, Robert 1988
Dixon, Dabney White 1987
Dixon, Richard N. 1988
Dolphin, David 1980
Donnelly, Robert 1984
Dougherty, Dennis A. 1990
Dowling, Michael G. 1988
Dows, David A. 1989
Drago, Russell S. 1994
Du, Meng Li 1987
Duffield, Chris 1993
Duffy, Norman V. 1981
Dumont, Randall 1990
Dundas, Ian E. 1986
Duneczky, Csilla A. 1982
Dunitz, Jack D. 1988
Dutta, Prabir K. 1990
Dykstra, Clifford E. 1990, 1993

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Earley, Joseph E. 1982, 1987
Easton, David 1983, 1986
Ebersson, Lenhart 1986, 1989

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Eckert, Charles A. 1985, 1987-1989
Eliel, Ernest L. 1985, 1994
Engel, Volker 1986-1987
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Edelstein, Tilden E. 1988
Efrima, Shlomo 1983
Eisenthal, Kenneth B. 1982
Electrochemical Society 1979
Elkowitz, Allan B. 1980
Elron, Matilda 1983-1984
El-Sayed, Mostafa 1988
Elsum, Ian R. 1982
The Encyclopedia of Molecular Biology 1993
The Encyclopedia of Physical Science and Technology 1984
Endicott, John F. 1981
Engel, Thomas 1992
Eno, Larry 1981
Ernst, R. R. 1991
Esterez, G. A. 1982
Estrup, Peder 1990
Evans, David A. 1984
Ezra, Greg 1986-1987

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Farid, Samir 1988, 1990
Field, R. W. 1989
Fischer, Sighart F. 1981, 1985, 1988
Fleming, Graham 1982, 1986, 1988-1989, 1994
Flynn, George 1982
Ford, Joseph 1978, 1981-1982, 1985
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Frees, K. W., Jr. 1981
Friesner, Richard A. 1988-1989

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 Fajer, Jack 1988
 Falbe, John 1978
 Fales, Henry M. 1980
 Fang, Jian-Yun 1991
 Fannoney, Susan E. 1990
 Farach, H. A. 1987
 Farantos, S. C. 1981
 Faulkner, Larry R. 1982
 Fawcett, W. Ronald 1982, 1988, 1990
 Feher, George 1978, 1987
 Feingold, Mario 1985, 1987
 Feit, M. D. 1982
 Felton, R. H. 1990
 Fenselau, Catherine 1991
 Ferguson, Eldon E. 1983
 Ferguson-Miller, Shelagh 1982
 Filby, R. H. 1990
 Fink, William H. 1990
 Finn, Robert 1992
 Fisher, Michael 1985
 Fitz, Dale E. 1978
 Floss, Heinz G. 1983
 Flygare, Ruth 1981
 Fong, Frank 1978, 1985
 Foote, C. S. 1978
 Ford, Peter C. and Richard J. Watts 1989
 Formosinho, Sabastião 1986
 Forsén, Sture 1988-1989
 Forst, Wendell 1984-1985
 Fox, Marye Anne 1989-1990
 Foxman, Bruce M. 1985
 Fréchet, Jean M. J. 1991
 Freeman, H. C. 1980
 Freeman, Ray 1987
 Fried, Josef 1979
 Friedlander, Gerhart 1988
 Friedman, Harold L. 1990
 Fritsche, W. 1982
 Fröbrich, P. 1982
 Frontiers Lecture Series 1987
 Frumkin, A. N. 1964
 Fukui, Kenichi 1979

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Gerber, Benny R. 1977, 1979-1980, 1982, 1985
Gerischner, Heinz 1966, 1978
Gileadi, Eliezer 1981, 1986
Goldberger, M. L. 1978, 1990
Goswami, Debabrata 1993-1994
Gozashti, Saeed 1988
Gray, Harry B. 1978, 1981, 1986, 1988-1990, 1992-1993
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Gruder, Yaron 1985
Gutzner, John B. 1978
Gutzwiller, Martin C. 1982, 1989-1990

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Gallup, Gordon 1982
 Ganguly, T. 1988
 Garrett, Bruce C. 1990, 1992
 Gauss, J. 1988
 Gelbart, William M. 1987, 1990
 Gemmell, Donald S. 1989
 George, Tom 1985
 Georgian, Thomas 1985
 Gilbert, Robert G. 1990
 Gillilan, Richard E. 1988
 Gilman, Paul 1979
 Ginder, Harold 1988
 Glauser, William A. 1988
 Goddard, William A. 1979, 1983
 Golden, David M. 1988-1989
 Golden, Sidney 1985
 Goldstine, Harold H. 1990
 Goodall, David 1988
 Goodman, Myron F. 1979
 Gordon Research Conferences 1961-1966
 Gordon, Robert E. 1977, 1979
 Gordon, Roy 1990
 Goscinski, Osvaldo 1986
 Govinjee 1996
 Graham, D. M. 1963
 Graham, E. S. 1979
 Graham, Glenn D. 1981
 Gray, Peter 1987
 Greci, Lucedio 1991
 Greene, John M. 1982
 Gress, Mary E. 1980, 1983
 Griffin, R. G. 1985
 Grodzinski, Linda Jean 1981
 Groh, Susan 1985
 Grover, J. Robb 1977
 Grubbs, Robert H. 1985
 Grunwald, Ernest 1984
 Guidotti, C. and N. K. Rahman 1982
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Hush, Noel S. 1981, 1988-1989
Hynes, J. T. 1984-1987, 1989, 1991
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Haberkorn, Rolf 1979
Haidle, Rudy 1988
Halevi, E. A. 1985
Hammes, Gordon 1983
Hammond, George S. 1985, 1987
Hamza, Salem M. 1989
Han, C. D. 1975
Han, Chau-Chung 1989
Hanle, Hellmut 1984
Hannay, Bruce 1978-1979
Hansen, Aage E. 1983
Haque, Azizul 1983
Harmony, Marlin D. 1984
Harris, Charles B. 1982
Harrison, A. G. 1979
Harrison, Judith A. 1989
Harrod, J. F. 1978
Harter, William G. 1984
Harvard University 1983, 1987
Hassan, M. H. A. 1989
Hattink, J. F. 1980
Helfand, Eugene 1987
Heller, Adam 1985, 1990
Heller, Albert 1983
Helman, Alexander 1990
Hemmerich, Peter 1981
Henderson, Douglas 1979
Hendrickson, D. N. 1986
Hercules, David 1988
Herman, Michael 1986
Herschfelder, J. O. 1989
Hiebert, Erwin N. 1983
Hills, Graham 1980
Hinze, Jürgen 1980-1981, undated
Hirsch, Dorothy 1985
Ho, Chien 1979
Ho, Wilson 1985
Hochstrasser, Robin M. 1982
Hoff, A. J. 1986
Honda, Kenichi 1988
Hood, Eric 1983
Hood, Leroy 1982
Hopfield, John 1986
Hornig, Donald 1989
Hsu, Yen-Chu 1989
Hub, W. 1985
Huie, Robert E. 1990
Humana Press Inc. 1979
Hupp, Joseph T. 1988
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Hutchinson, Clyde 1985
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Hyde, Earl K. 1978

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**International Academy of Quantum Molecular
Science 1987-1988, 1991-1993, 1995-1998
Itaya, Kingo 1989**

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Ibers, James A. 1984-1985

Illinois Institute of Technology 1981

International Congress on Photosynthesis (8th)
1989

International Journal of Chemical Kinetics 1978

International Summer School 1981-1983

Isied, Stefan 1989

Israel Today 1985

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John Wiley and Sons, Inc. 1979, 1981, 1993-1994

Jonas, Jiri 1982, 1985-1987

Jordan, Kenneth D. 1985, 1989

Jortner, Joshua 1978, 1982-1983, 1985-1990

***Journal of Chemical Physics* 1963, 1978-1990**

***Journal of Chemical Physics* 1991**

***Journal of Chemical Physics* 1992-1993**

***Journal of Chemical Physics* 1994**

***Journal of Chemical Physics* 1995-1996**

***Journal of Electroanalytical Chemistry and
Interfacial Electrochemistry* 1986**

***Journal of Physical Chemistry* 1978-1979,
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***Journal of Physical Chemistry* 1990-1991**

***Journal of Physical Chemistry* 1992-1993**

***Journal of the American Chemical Society* 1979,
1982, 1986-1987**

***Journal of the American Chemical Society*
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Jackson, Bret 1982
Jackson, Nicolas 1987
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Jaffe, Charles 1978
Jagannathan, Salem 1982
James, B. R. 1981
JAYCOR 1978
Jencks, William P. 1975, 1984, 1990
Jennings, Paul C. 1990
Jha, Shashi Kant 1981
Johnson, Alma 1989
Johnson, Carey K. 1985
Johnston, David L. 1987
Jonas, David M. 1990
Jonathan 1979
Jónsson, Hannes 1986
Joseph, Mary 1983
Journal of Physics B 1978
JTB Communications, Inc. 1989
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Wojcik, Marek J. 1986
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Series 4. **Research files**

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Box 21, Folder 7	California Institute of Technology. Office of Naval research proposals: "Theory of electron and atom transfer reactions" 1979-1981
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Box 22, Folder 5	California Institute of Technology. National Science Foundation proposals: "Theoretical studies in chemical kinetics and related problems" 1989
Box 22, Folder 6	California Institute of Technology. US-Spain joint cooperative research. "Chemical reaction dynamics": Proposals 1984
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Box 22, Folder 15	California Institute of Technology. Caltech Consortium in Chemistry and Chemical Engineering proposals. "A Puzzle: mass-independent ozone isotopic enrichment in the stratosphere". Related correspondence 1991
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Subseries 2. **Technical Reports**

Box 23, Folder 1	"A Kinetic study of the reaction of diborane with phosphine" 1955
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Box 23, Folder 6	"Photochemical studies in flash photolysis" 1957
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Box 23, Folder 9	"On the theory of overvoltage for electrode processes possessive electron transfer mechanism I" 1957
Box 23, Folder 10	"Study of rate of nonequilibrium decomposition of energetic molecules," Annual report 1973
Box 23, Folder 11	"Study of rate of nonequilibrium decomposition of energetic molecules," Final report 1977

Subseries 3. **Manuscripts**

Box 23, Folder 12	"Applications of kinetics to the mechanism of ionic redox reactions" [195-]
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Box 23, Folder 14	"On the theory of oxidation reduction reactions and related processes" 1957
Box 23, Folder 15	"A quantitative theory for salvation effects in charge transfer spectra" 1958
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Series 5. **Talks, Conferences, and Meetings**

Box 24, Folder 1	"A theory of electron transfers at electrodes," C.I.T.C.E. meeting (14th: Moscow) Aug 19-24, 1963
Box 24, Folder 2	"Aspects of electrochemistry," International Summer School on Quantum Mechanical aspects of electrochemistry (Ohrid, Yugoslavia) Sep 1971
Box 24, Folder 3	International Summer School on Quantum Mechanical aspects of electrochemistry (Ohrid, Yugoslavia) 1972
Box 24, Folder 4	"Perspectives in physical chemistry," Carl A. Winkler Symposium, McGill University (Montreal) May 23, 1975
Box 24, Folder 5	"Theory and experiment in electron transfer reactions," Colorado State University (Fort Collins) Feb 10-11, 1977
Box 24, Folder 6	"Semiclassical theory of harmonic systems with applications to chemistry," International Congress on Stochastic Behavior (Como, Italy) Jun 19-24, 1977
Box 24, Folder 7	Visiting Professor Lecture Series, University of Texas at Austin Jul 18-22, 1977
Box 24, Folder 8	"Theory and biological electron transfers," International Symposium, Johnson Research Foundation (Philadelphia) Jul 19-23, 1978
Box 24, Folder 9	Conference on the Dynamics of Molecular Collisions (Berkeley) Aug 1978
Box 24, Folder 10	"Kinetics of electron transfer reactions in solutions," (Villares, Switzerland) Aug 28-Sep 1, 1978
Box 24, Folder 11	"Tunneling and electron transfer in chemical and biological systems," Dahlem Konferenzen (Berlin) Oct 16-20, 1978
Box 24, Folder 12	International Conference on Physicochemical Hydrodynamics (Washington, DC) Nov 6-8, 1978
Box 24, Folder 13	Kelly Lectures, Purdue University (West Lafayette, IN) Dec 1, 1978
Box 24, Folder 14	"Future developments in electrochemistry and related fields," American Association for the Advancement of Science (Houston) Jan 5, 1979
Box 24, Folder 15	Annual Western Spectroscopy Association Conference (26th: Pacific Grove, VA) Jan 24-26, 1979

Box 24, Folder 16	"Energy redistribution in molecules," Stanford University Mar 7-9, 1979
Box 24, Folder 17	"Effects of an harmonicity of molecules at low and high vibrational energies," International Symposium on Reaction Dynamics and Energy Transfer (Munich) Mar 20-31, 1979
Box 24, Folder 18	Radiation Laboratory Review Committee, University of Notre Dame Apr 25-27, 1979
Box 24, Folder 19	"Theory of proton transfer rates," Workshop on Oxygen Electrochemistry (Painesville, OH) May 2-4, 1979
Box 24, Folder 20	"Similarities and differences between electron and proton transfers," Symposium of Electrode Processes (3rd: Boston) May 6-9, 1979
Box 24, Folder 21	National Science Foundation Advisory Committee for Chemistry (Washington, DC) May 14-15, 1979
Box 24, Folder 22	"On the behavior of vibrationally excited molecules," Annual Meeting on Mass Spectrometry and Applied Topics, American Society for Mass Spectrometry (27th: Seattle) Jun 6-8, 1979
Box 24, Folder 23	"On the behavior of vibrationally excited molecules at low and high vibrational energy," Oak Ridge National Laboratory Jun 20, 1979
Box 24, Folder 24	"Aspects of electron transfer theory," International Symposium on Oxidases and Related Oxidation-Reduction Systems (3rd: Albany) Jun 30-Jul 4, 1979
Box 24, Folder 25	International Workshop on Membrane Bioenergetics (Toronto) Jul 5-7, 1979
Box 24, Folder 26	"Energy redistribution and related topics in chemical kinetics," La Jolla Institute Workshop Aug 1-4, 1979
Box 24, Folder 27	"Semiclassical mechanical approach to quantization," Gordon Research Conference (Wolfeboro, NH) Aug 13-17, 1979
Box 24, Folder 28	Office of Naval Research meeting (Arlington) Sep 17-18, 1979
Box 24, Folder 29	"Theory of electron and proton transfer reactions at electrodes," The Electrochemical Society (Los Angeles) Oct 15, 1979
Box 24, Folder 30	Semiclassical aspects of energy transfer between molecules," International Congress of Quantum Chemistry (3rd: Kyoto) Oct 29-Nov 3, 1979
Box 24, Folder 31	"Molecular behavior in the quasi-periodic and stochastic regimes," International Conference on Nonlinear Dynamics (New York) Dec 17-21, 1979
Box 25, Folder 1	William Draper Harkins Lecture, University of Chicago Mar 3, 1980
Box 25, Folder 2	"Energy randomization in molecules," British Biophysical Society (Lancaster) Mar 25-27, 1980
Box 25, Folder 3	"Dynamics of forced coupled oscillators"; "Intramolecular dynamics in the quasi-periodic and stochastic regimes," American Mathematical Society (Boulder) Mar 27-29, 1980
Box 25, Folder 4	West Coast Theoretical Chemistry Conference, Caltech (2nd: Pasadena) Apr 9-11, 1980
Box 25, Folder 5	"On a criterion for quantum stochasticity in intramolecular dynamics," American Chemical Society meeting (Tempe) Jun 12-14, 1980
Box 25, Folder 6	Canadian Symposium on Theoretical Chemistry (7th: Banff) Jun 15-20, 1980
Box 25, Folder 7	Workshop on "Laser excitation and dynamics of highly excited polymers," (Orsay, France) Jul 1-3, 1980
Box 25, Folder 8	Workshop on "Energy scrambling in a molecule," University of Bielefeld (Germany) Jul 4-10, 1980
Box 25, Folder 9	Sackler Distinguished Lectures in Chemistry, Tel Aviv University Nov 2-16, 1980
Box 25, Folder 10	Working Group on Modern Chemistry, Los Alamos National Laboratory Jan 5-6, 1981
Box 25, Folder 11	"Electron transfer," Gordon Research Conference (Ventura) Jan 26-30, 1981
Box 25, Folder 12	"Classical and quantum stochasticity in Hamiltonian systems," Texas Conference on Theoretical Approaches to Chemical Dynamics (Austin) Mar 1-4, 1981
Box 25, Folder 13	"Recent developments in simple electron transfers," International Symposium in honor of Hellmut Beinert (Konstanz, Germany) Mar 9-13, 1981
Box 25, Folder 14	American Academy of Arts and Sciences meeting (Los Angeles) Apr 3, 1981
Box 25, Folder 15	Office of Naval Research meeting on Electrochemistry (Rochester, MI) Apr 23-24, 1981
Box 25, Folder 16	"Energy randomization in molecules," University of Southern California (Los Angeles) May 1, 1981

Box 25, Folder 17	Kolthoff Lectureship in Chemistry, University of Minnesota (Minneapolis) May 12-15, 1981
Box 25, Folder 18	"Further developments in electron transfers," Conference on Inorganic Reaction Mechanisms (Detroit) Jun 10-12, 1981
Box 25, Folder 19	"Intramolecular dynamics and energy redistribution," American Conference on Theoretical Chemistry (4th: Boulder) Jun 22-26, 1981
Box 25, Folder 20	"Dynamics of long-lived complexes," Gordon Research Conference (Holderness, NH) Jul 27-31, 1981
Box 25, Folder 21	"Electron transfer theory and applications to biochemical systems." Congress of the International Union of Pure and Applied Chemistry (28th: Vancouver) Aug 16-22, 1981
Box 25, Folder 22	"New theoretical ideas in chemical kinetics," American Chemical Society Symposium (New York) Aug 26-27, 1981
Box 25, Folder 23	Executive Committee meeting of the American Academy of Arts and Sciences (20th: Stanford) Nov 20, 1981
Box 25, Folder 24	"Evolution of theory in electron transfer reaction"; "Energy randomization in molecules," University of Nebraska (Lincoln) Jan 28-29, 1982
Box 25, Folder 25	American Academy of Arts and Sciences Executive Committee meeting (La Jolla) Mar 13, 1982
Box 25, Folder 26	O. K. Rice Lectureship, University of North Carolina (Chapel Hill) Mar 23-26, 1982
Box 25, Folder 27	Edward Herbert Boomer Memorial Lectures, University of Alberta Mar 29-Apr 1, 1982
Box 25, Folder 28	Annual Meeting of the Federation of American Societies for Exploration of Experimental Biology (6th: New Orleans) Apr 17-20, 1982
Box 25, Folder 29	Renaud Foundation Lectureship Series, Michigan State University (East Lansing) May 18-19, 1982
Box 25, Folder 30	"Recent theoretical studies in charge transfer reactions," University of California (Berkeley) May 25, 1982
Box 25, Folder 31	"Unimolecular processes and vibrational energy randomization," Topical Meeting on Picosecond Phenomena (3rd: Garmisch-Partenkirchen) Jun 16-18, 1982
Box 25, Folder 32	Instituto Tecnologico de Tijuana Jun 25, 1982
Box 25, Folder 33	"Rates of electron transfer," Gordon Research Conference, Proctor Academy (Andover, NH) Aug 2-6, 1982
Box 25, Folder 34	Lecture Series on "Frontiers in Chemical Research," Texas A&M University (College Station) Oct 24, 1982
Box 25, Folder 35	"Electron transfer reactions--theory and experiment," University of Georgia (Athens) Oct 25, 1982
Box 25, Folder 36	Office of Naval Research Electrochemistry meeting (Boston) Nov 1-2, 1982
Box 25, Folder 37	American Academy of Arts and Sciences Executive Committee meeting (Stanford) Nov 19, 1982
Box 25, Folder 38	National Research Council, Committee to Survey Opportunities in the Chemical Sciences (Washington, DC) Nov 21-22, 1982
Box 26, Folder 1	"Statistical theory of unimolecular reactions and intramolecular dynamics," International Conference on Photochemistry and Photobiology (Alexandria, Egypt) Jan 5-10, 1983
Box 26, Folder 2	National Academy of Sciences Regional Roundtables, Caltech (Pasadena) Feb 18, 1983
Box 26, Folder 3	American Physical Society Symposium (Los Angeles) Mar 21-25, 1983
Box 26, Folder 4	Quantum Chaos Meeting, Los Alamos National Laboratory Mar 28-29, 1983
Box 26, Folder 5	"Vibrational energy randomization in molecules," Faraday Discussion "Intramolecular kinetics," University of Warwick Apr 18-20, 1983
Box 26, Folder 6	National Academy of Sciences Annual Meeting (Washington, DC) Apr 23-24, 1983
Box 26, Folder 7	American Academy of Arts and Sciences Executive Committee meeting (Pasadena) May 6, 1983
Box 26, Folder 8	"Electron transfer reactions," Peter A. Leermakers Symposium, Wesleyan University (11th: Middletown, CT) May 12, 1983
Box 26, Folder 9	Meeting of the Electrochemical Society (163rd: San Francisco) May 8-13, 1983
Box 26, Folder 10	"Recent developments in electron and atom transfer reactions," University of Chicago Jun 8-10, 1983

Box 26, Folder 11	International Conference on Quantum Chaos (Como, Italy) June 20-26, 1983
Box 26, Folder 12	American Chemical Society Symposium on Opportunities in Chemistry (Washington, DC) Aug 28-31, 1983
Box 26, Folder 13	Nieuwland Lectureship in Chemistry, University of Notre Dame Sep 26-30, 1983
Box 26, Folder 14	Guelph-Waterloo Distinguished Lecturer Series, Guelph-Waterloo Centre for Graduate Work in Chemistry Oct 1-8, 1983
Box 26, Folder 15	"Theoretical aspects of intramolecular dynamics," Workshop on Primary Photophysical Processes (Herrsching, Germany) Oct 16-20, 1983
Box 26, Folder 16	"Statistical and dynamical effects in unimolecular processes," Conference on Radiation Transitions (Newport Beach) Jan 3-7, 1984
Box 26, Folder 17	Office of Naval Research meeting (Midway, UT) Mar 19-20, 1984
Box 26, Folder 18	"Intramolecular dynamics and unimolecular processes," American Chemical Society meeting (187th: St. Louis) Apr 8-11, 1984
Box 26, Folder 19	Raymond Boyer reunion, McGill University (Montreal) Jun 2, 1984
Box 26, Folder 20	Canadian Institute of Chemistry Annual Meeting, McGill University (Montreal) Jun 3-6, 1984
Box 26, Folder 21	"Dynamics and energetics of reactions," Conference on Reaction Mechanisms, Duke University (20th: Durham, NC) Jun 4-7, 1984
Box 26, Folder 22	American Conference on Theoretical Chemistry (5th: Jackson, WY) Jun 15-20, 1984
Box 26, Folder 23	International Symposium on Gas Kinetics Workshop on Transition State Theory, (8th: Cambridge, England) Jul 13-20, 1984
Box 26, Folder 24	"Electron transfer processes," Purdue University (West Lafayette, IN) Nov 30-Dec 3, 1984
Box 26, Folder 25	"Intramolecular electron and proton transfer," International Chemical Congress of Pacific Basin Societies (Honolulu) Dec 16-24, 1984
Box 27, Folder 1	E. U. Condon Lecture, University of Colorado (Boulder) Mar 13-15, 1985
Box 27, Folder 2	"Theory and experiments in electron transfer," International Workshop on Antennas and Reaction Centers of Photosynthetic Bacteria (Munich) Mar 23-25, 1985
Box 27, Folder 3	Aspenyl Chemistry and Biochemistry Meetings (Aspen) Mar 30-Apr 6, 1985
Box 27, Folder 4	National Academy of Sciences Annual Meeting (122nd: Washington, DC) Apr 21-24, 1985
Box 27, Folder 5	Sydney Golden Lectures, Brandeis University (Waltham, MA) Apr 24, 1985
Box 27, Folder 6	Leland J. Haworth Lectures, Brookhaven National Laboratory (Upton, NY) Aug 20-29, 1985
Box 27, Folder 7	Arthur Birch Lecture Series, Australian National University (Canberra) Oct 6-12, 1985
Box 27, Folder 8	Golden Anniversary Symposium, Polytechnic Institute of New York (Brooklyn) Nov 22-23, 1985
Box 27, Folder 9	"Electron transfer," Exxon Company (Annandale, NJ) Nov 25-26, 1985
Box 27, Folder 10	C. J. Ballhausen Festspiel (Copenhagen) Apr 4-5, 1986
Box 27, Folder 11	15th Peter A. Leermakers Symposium, Wesleyan University (Middletown, CT) May 8, 1986
Box 27, Folder 12	Sweden Universities visit Oct 26-Nov 7, 1986
Box 27, Folder 13	University of California visit (Berkeley) Nov 11-12, 1986
Box 27, Folder 14	Annual Francis Clifford Phillips Lecture Series, University of Pittsburgh (32nd) Mar 25-26, 1987
Box 27, Folder 15	"Some recent developments in electron transfers," NATO Advanced Research Workshop (Capri, Italy) Apr 5-10, 1987
Box 27, Folder 16	Discussion Meeting of the Deutsche Bunsengesellschaft für Physikalische Chemie (Grainau) Aug 17-20, 1987
Box 27, Folder 17	Los Alamos National Laboratory Colloquia Series Aug 31, 1987
Box 27, Folder 18	NATO Advanced Research Workshop (Cadarache, France) Sep 18-Oct 4, 1987
Box 27, Folder 19	The Royal Society Annual Dinner (London) Sep 28-30, 1987
Box 27, Folder 20	"Electron transfer reactions," Okazaki Conference (30th) Oct 28-30, 1987
Box 27, Folder 21	Faraday Symposium on Molecular Vibrations, University of Reading Dec 8-19, 1987
Box 27, Folder 22	"Recent developments in electron transfer reactions," Annual Mardi Gras Symposium in Theoretical Chemistry (20th: New Orleans) Feb 12, 1988
Box 27, Folder 23	USA-USSR Workshop on Lasers in Linear and Nonlinear Photochemistry (Santa Barbara) Mar 2-4, 1988

Box 27, Folder 24	"Frictional and vibrational effects in electron transfer rates," Workshop (Lake Arrowhead) Mar 7-9, 1988
Box 27, Folder 25	Harold A. Iddles Lecture Series, University of New Hampshire (Durham) Mar 20-25, 1988
Box 27, Folder 26	"Electron transfer reactions: Theory and Experiment," Dartmouth College Lecture (4th: Chestnut Hill, MA) Mar 23, 1988
Box 27, Folder 27	Joe L. Franklin Memorial Lecture, Rice University (Houston, TX) Apr 12, 1988
Box 27, Folder 28	"Electron transfer reactions," Michelson-Morley Centennial Commemorative Series, Case Western Reserve University (Cleveland, OH) Apr 14, 1988
Box 27, Folder 29	"Theoretical studies of reaction rates," American Chemical Society Meeting (Montreal) Jun 5-10, 1988
Box 27, Folder 30	Gordon Research Conference on Radical Ions (Wolfeboro, NH) Jun 27-Jul 1, 1988
Box 27, Folder 31	"Electron transfer," International Conference on Photochemical Conversion and Storage of Solar Energy, Northwestern University (7th: Evanston, IL) Jul 31-Aug 5, 1988
Box 27, Folder 32	Gordon Research Conference on Physicochemical Aspects of Photosynthesis (Plymouth, NH) Jul 4-8, 1988
Box 27, Folder 33	Gordon Research Conference on Electron Donor-Acceptor Interactions (Wolfeboro, NH) Aug 8-12, 1988
Box 27, Folder 34	"Recent developments in intramolecular dynamics and unimolecular reactions," Thermochemistry and Kinetic Symposium, University of Southern California (Los Angeles) Sep 22-23, 1988
Box 27, Folder 35	3M University Lecturer in Chemistry, University of Western Ontario (London) Oct 26-28, 1988
Box 27, Folder 36	Lind Lectureship, University of Tennessee (Knoxville) Oct 29-Nov 2, 1988
Box 28, Folder 1	"Unimolecular reactions and intramolecular dynamics," Informal Conference on Photochemistry (18th: Santa Monica) Jan 9-13, 1989
Box 28, Folder 2	Solar Photochemistry Research Conference, Department of Energy (13th: Silver Creek, CO) June 12-15, 1989
Box 28, Folder 3	International Congress on Photosynthesis (8th: Stockholm) Aug 6-11, 1989
Box 28, Folder 4	"Intramolecular dynamics and unimolecular reaction," Summer School on Molecular Sciences (Taipei) Aug 28-30, 1989
Box 28, Folder 5	"Electron transfers at various interfaces and with and without bond rupture," ISE Pre-Symposium (Sendai, Japan) Sept 15-16, 1989
Box 28, Folder 6	Meeting of the International Society of Photochemistry (40th: Kyoto) Sep 17-22, 1989
Box 28, Folder 7	"Interaction of theory and experiment in electron transfers," International Chemical Congress of Pacific Basin Societies (Honolulu) Dec 17-22, 1989
Box 28, Folder 8	"Intramolecular dynamics and unimolecular reactions," The Royal Society (London) Feb 14-15, 1990
Box 28, Folder 9	"Reorganizational and other factors for electron transfer rates," Reilley Award Symposium (New York) Mar 5-9, 1990
Box 28, Folder 10	"Basic aspects of electron transfer processes," International Energy Agency Conference (Colorado Springs) Mar 13-16, 1990
Box 28, Folder 11	"Intramolecular dynamics and artificial intelligence searches," American Chemical Society meeting (Boston) Apr 22-27, 1990
Box 28, Folder 12	Office of Naval Research Electrochemical Sciences Program meeting (San Diego) Jul 11-12, 1990
Box 28, Folder 13	"Intramolecular dynamics and unimolecular reactions," American Conference on Theoretical Chemistry (7th: San Diego) Jul 29-Aug 3, 1990
Box 28, Folder 14	American Chemical Society Symposium on Electron Transfer (Washington, DC) Aug 26-31, 1990
Box 28, Folder 15	UK Secretary of State for Education and Science meeting, Caltech (Pasadena) Sep 21, 1990
Box 28, Folder 16	J. H. Appleton Lectureship, Brown University (Providence) Oct 16-17, 1990
Box 28, Folder 17	Evans Award Lecture, The Ohio State University (Columbus) Oct 18-19, 1990
Box 29, Folder 1	Faraday Discussion, The Royal Society of Chemistry (London) Mar 25-27, 1991

Box 29, Folder 2	"Electron transfer reactions," Edgar Fahs Smith Memorial Lecture, University of Pennsylvania (Philadelphia) April 2, 1991
Box 29, Folder 3	"Electron transfer reactions," Glenn Brown Lecture, Case Western Reserve University (Cleveland, OH) Apr 4-5, 1991
Box 29, Folder 4	Richard Bernstein Memorial Symposium, University of California (Los Angeles) Apr 19-20, 1991
Box 29, Folder 5	American Philosophical Society Annual meeting (Philadelphia) Apr 25-27, 1991
Box 29, Folder 6	"Electron transfer reactions in chemistry and biology," Fritz London Memorial Lecture (31st: Duke University, Durham, NC) Apr 22-23, 1991
Box 29, Folder 7	National Academy of Sciences Annual meeting (Washington, DC) Apr 28-May 1, 1991
Box 29, Folder 8	Joint Meeting of the Royal Society and the American Philosophical Society (London) May 15-17, 1991
Box 29, Folder 9	"Electron transfer reactions in chemistry," Remsen Memorial Lecture, American Chemical Society (Baltimore) May 9, 1991
Box 29, Folder 10	"Electron transfer processes," Université de Droit (Valbonne, France) Jun 25-Jul 2, 1991
Box 29, Folder 11	International Congress of Quantum Chemistry (7th: Menton, France) Jul 2-5, 1991
Box 29, Folder 12	"Theory of electron transfer processes," NATO Advanced Study Institute Summer School (Aussois, France) Sep 1-13, 1991
Box 29, Folder 13	George Fisher Baker Lectures in Chemistry (Cornell University, Ithaca) Sep 22-25, 1991
Box 29, Folder 14	The Weissberger-Williams Lecture Series, Eastman Kodak Company (Rochester) Oct 10-12, 1991
Box 29, Folder 15	"Electron transfer across liquid-liquid and other interfaces," Gordon Research Conference (Ventura) Jan 20-24, 1992
Box 29, Folder 16	National Academy of Sciences meeting (Washington, DC) Feb 8, 1992
Box 29, Folder 17	"Electronic aspects of STM imaging and of electron transfer across monolayers," American Chemical Society meeting (203rd: San Francisco) Apr 5-10, 1992
Box 29, Folder 18	American Philosophical Society Annual meeting (Philadelphia) Apr 23-25, 1992
Box 29, Folder 19	National Academy of Sciences Annual meeting (129th: Washington, DC) Apr 27, 1992
Box 29, Folder 20	"Theory and experiment in electron transfer processes," Northwest Lectureship in Physical Chemistry (Pasco, WA) May 6-8, 1992
Box 29, Folder 21	Pauling Medal Award, Oregon State University (Corvallis) May 9, 1992
Box 29, Folder 22	"Theory and experiment in electron transfer processes," International Symposium on Experimental and Theoretical Aspects of Excited State Electron Transfer (Pultusk, Poland) Sep 27-Oct 1, 1992
Box 29, Folder 23	"Electron transfers across interfaces," Meeting of the Electrochemical Society (182nd: Toronto) Oct 11-16, 1992
Box 29, Folder 24	C. A. McDowell Lecture, University of British Columbia (Vancouver) Oct 18-20, 1992
Box 30, Folder 1	Caltech Associates dinner talk (Pasadena) Jan 25, 1993
Box 30, Folder 2	"Electron transfers in chemistry and the Nobel experience," Caltech Faculty lecture (Pasadena) Feb 1, 1993
Box 30, Folder 3	"Implications of basic research," Research Conference, Caltech (Pasadena) Feb 4, 1993
Box 30, Folder 4	National Academy of Sciences Regional Roundtable meeting (Irvine) Feb 5-6, 1993
Box 30, Folder 5	"Nobel Week in Stockholm," Athenaeum dinner presentation, Caltech (Pasadena) Mar 18, 1993
Box 30, Folder 6	Symposium on Current Developments in the Computer Sciences, University of California (Los Angeles) Mar 23, 1993
Box 30, Folder 7	Hirschfelder Lectures, University of Wisconsin (Madison) Apr 11-17, 1993
Box 30, Folder 8	National Academy of Sciences Annual meeting (130th: Washington, DC) Apr 25-28, 1993
Box 30, Folder 9	Thomas A. Edison Memorial Lecture, Naval Research Laboratory (Washington, DC) Apr 27, 1993
Box 30, Folder 10	American Philosophical Society meeting (Philadelphia) Apr 28-May 1, 1993
Box 30, Folder 11	Annual Alumni Seminar Day, Caltech (56th: Pasadena) May 15, 1993
Box 30, Folder 12	Convocation Address, Queen's University at Kingston (Ontario, Canada) Jun 4, 1993

Box 30, Folder 13	Annual Salute to Excellence Program, The American Academy of Achievement (32nd: Glacier Park, MO) Jun 24-26, 1993
Box 30, Folder 14	"Electron transfer reactions in chemistry," SURF talk, Caltech (Pasadena) Jul 7, 1993
Box 30, Folder 15	"The channel three problem in benzene," Conference in honor of Max Wolfsberg, University of California (Irvine) Jul 11-16, 1993
Box 30, Folder 16	Summer School in Molecular Reaction Dynamics, Universidad Complutense (Madrid) Aug 1-6, 1993
Box 30, Folder 17	1992 Nobel Laureates meeting with the President of the USA, The White House (Washington, DC) Sep 2, 1993
Box 30, Folder 18	NATO Advanced Workshop on Photoinduced Electron Transfer Reactions (Praia da Falesia, Portugal) Sep 5-11, 1993
Box 30, Folder 19	Faraday Discussion, University of Cambridge Sep 13-15, 1993
Box 30, Folder 20	Caltech Associates Northern California talk (San Francisco) Sep 18, 1993
Box 30, Folder 21	Caltech Freshmen Camp (Catalina Island) Sep 22-23, 1993
Box 30, Folder 22	Annual Nobel Laureate Lecture, California State University (19th: Long Beach) Sep 29-30, 1993
Box 30, Folder 23	McGill Society of Southern California talk (Long Beach) Oct 30, 1993
Box 30, Folder 24	NEDO Project discussion, Caltech (Pasadena) Nov 26-28, 1993
Box 31, Folder 1	Francis Blacet Lecture, University of California (Los Angeles) Mar 7, 1994
Box 31, Folder 2	"Quantum correction for solvent effects on electron transfer rates," American Chemical Society Symposium (San Diego) Mar 13-15, 1994
Box 31, Folder 3	"Electron transfer reactions in chemistry and biology," Nobel Lecture Series, Florida State University (Tallahassee) Mar 16-17, 1994
Box 31, Folder 4	Bicentennial Symposium, University of North Carolina (Chapel Hill) Mar 19, 1994
Box 31, Folder 5	Accademia Nazionale dei Lincei Symposium (Perugia, Italy) Mar 29-30, 1994
Box 31, Folder 6	National Science Teachers Association talk (Anaheim) Apr 1, 1994
Box 31, Folder 7	Arthur D. Little Lectures, MIT (Boston) Apr 11-13, 1994
Box 31, Folder 8	Bryan Priestman Lectures, University of New Brunswick (Fredericton) Apr 14-15, 1994
Box 31, Folder 9	Beatty Memorial Lectures, McGill University (Montreal) Apr 19, 1994
Box 31, Folder 10	"Interaction of theory and experiment in chemistry," Herzberg Lecture, Carleton University (Ottawa) Apr 20, 1994
Box 31, Folder 11	"Electron transfer," N. J. Leonard Lectures, University of Illinois (Urbana) Apr 21-22, 1994
Box 31, Folder 12	"Electron transfers," Festkolloquium in honor of Heinz Gerischer (Berlin) Apr. 28, 1994
Box 31, Folder 13	Canadian Society for Chemistry Conference (77th: Winnipeg) May 29, 1994
Box 31, Folder 14	International Discussion Meeting on Molecular Spectroscopy and Molecular Dynamics (Grainau, Germany) Aug 28-Sep 1, 1994
Box 31, Folder 15	"Electron transfer reactions in chemistry and biology," Harden Satellite Meeting, Wye College (9th: Ashford, England) Sep 8-10, 1994
Box 31, Folder 16	Ernest B. Yeager Symposium, Case Western Reserve University (Cleveland, OH) Sep 22, 1994
Box 31, Folder 17	International Symposium on Bioelectrochemistry and Bioenergetics (12th: Seville) Sep 25-30, 1994
Box 31, Folder 18	"Electron transfers in chemistry and biology," Annual Floyd E. Bartell Memorial Lecture, University of Michigan (6th: Ann Arbor) Oct 7, 1994
Box 31, Folder 19	"Theory and experiment in science," State University of New York (Buffalo) Oct 8, 1994
Box 31, Folder 20	"Electron transfer reactions," National Taiwan University (Taipei) Oct 17-23, 1994
Box 31, Folder 21	Chinese Academy of Sciences, China Oct 24-Nov 5, 1994
Box 31, Folder 22	"Electron transfer reactions in chemistry and biology," Hong Kong University of Science and Technology Nov 5-9, 1994
Box 31, Folder 23	Workshop: "Ideas, Instruments, and Innovations," Caltech (Pasadena) Nov 10-13, 1994
Box 31, Folder 24	New Energy and Industrial Technology Development Organization (NEDO) meeting (Hawaii) Nov 16-26, 1994
Box 31, Folder 25	Okazaki Symposium on Electron Transfer Chemistry Nov 22-26, 1994

Box 32, Folder 1	Office of Naval Research Contractor meeting, University of California (Los Angeles) Jan 13-14, 1995
Box 32, Folder 2	"Managing your way to a Nobel Prize," Caltech Management Association dinner (Pasadena) Jan 17, 1995
Box 32, Folder 3	"Interaction of theory and experiment in electron transfers in chemistry and biology," Theory Seminar talk, Caltech (Pasadena) Jan 20, 1995
Box 32, Folder 4	Regional Roundtable for members of the National Academy of Sciences, The Beckman Center (Irvine) Feb 3, 1995
Box 32, Folder 5	Caltech Chemistry and Chemical Engineering staff talk, Caltech (Pasadena) Mar 8, 1995
Box 32, Folder 6	"Electron transfers in chemistry and biology--comparison of theory and experiments," Annual Kenneth S. Pitzer Lecture, University of California (8th: Berkeley) Apr 18, 1995
Box 32, Folder 7	American Philosophical Society General Meeting (Philadelphia) Apr 20-22, 1995
Box 32, Folder 8	Annual Meeting of the National Academy of Sciences (132nd: Washington, DC) Apr 23-26, 1995
Box 32, Folder 9	"Electron transfers in chemistry and biology--comparison of theory and experiments," Meeting of the Nobel Laureates in Chemistry (15th: Lindau, Germany) Jun 26-30, 1995
Box 32, Folder 10	"Interaction of theory and experiment in electron transfers in chemistry and biology," International Congress of the International Union of Pure and Applied Chemistry (IUPAC) (35th: Istanbul) Aug 14-19, 1995
Box 32, Folder 11	"Electron transfer reaction in chemistry, electrochemistry, and biology," Annual Meeting of the International Society of Electrochemistry (ISE) (46th: Xiamen, China) Aug 27-Sep 1, 1995
Box 32, Folder 12	"Electron transfer reaction in chemistry, electrochemistry, and biology," NEDO Meeting, Caltech (Pasadena) Oct 15-16, 1995
Box 32, Folder 13	"Electron transfers in chemistry and biology--comparison of theory and experiments," Annual Samuel Schrage Memorial Lecture, University of Illinois at Chicago (6th) Oct 18, 1995
Box 32, Folder 14	"Electron transfers in chemistry and biology--and life at the Poly," Eirich/Morawetz birthday celebration talk, Polytechnic University (Brooklyn) Oct 20, 1995
Box 32, Folder 15	"Evolution of basic research and applications--a personal view," G. Gloss Lecture Series, University of Chicago Nov 14, 1995
Box 32, Folder 16	Symposium: "Future of Science," University of Toronto Nov 16, 1995
Box 32, Folder 17	"Intramolecular dynamics," International Conference in Chemistry (20th: Brussels) Nov 28-Dec 2, 1995
Box 33, Folder 1	Ray Owen 80th Birthday Symposium, Caltech (Pasadena) Feb 16, 1996
Box 33, Folder 2	"Electron transfer reaction in chemistry, electrochemistry, and biology," International Symposium on Electron Transfer in Proteins, Yokohama National University Mar 17-20, 1996
Box 33, Folder 3	"Recent trends in electron transfers," American Chemical Society National Meeting (211th: New Orleans) Mar 24-28, 1996
Box 33, Folder 4	"Electron transfers in chemistry and biology--comparison of theory and experiments," Donald G. Davis Memorial Lecture, University of New Orleans (18th: New Orleans) Mar 29, 1996
Box 33, Folder 5	"Electron transfers in chemistry and biology--comparison of theory and experiments," Masten Lecture, University of Texas at Austin Apr 1, 1996
Box 33, Folder 6	Norman Davidson Symposium, Caltech (Pasadena) Apr 1-3, 1996
Box 33, Folder 7	The Royal Society "Project Science" meeting, Caltech (Pasadena) Apr 16, 1996
Box 33, Folder 8	Caltech campus wide celebration: "Shake hands with Ed & Rudy!" (Pasadena) Apr 16, 1996
Box 33, Folder 9	American Philosophical Society Annual Meeting (Philadelphia) Apr 25-27, 1996
Box 33, Folder 10	Annual Meeting of the National Academy of Sciences (133rd: Washington) Apr 27-30, 1996
Box 33, Folder 11	"Electron transfer reaction in chemistry, electrochemistry, and biology," meeting of the Electrochemical Society (189th: Los Angeles) May 6, 1996

Box 33, Folder 12	"Evolution of basic research and application--a personal view"; "Electron transfer reaction in chemistry and biology," 1996 Distinguished Lecturer, University of Louisville May 1-5, 1996
Box 33, Folder 13	"Theories of reaction rates and related processes," Linnett Visiting Professor Lectures, University of Cambridge May 21-Jun 19, 1996
Box 33, Folder 14	American Academy of Achievement "Salute to Excellence" Weekend (Sun Valley, ID) Jun 27-29, 1996
Box 33, Folder 15	CPS Seminar, Caltech (Pasadena) Aug 1996
Box 33, Folder 16	Cátedras Presidenciales en Ciencias 1996 [Chilean Presidential Science Committee] (Santiago) Aug 4-10, 1996
Box 33, Folder 17	"Electron transfers in chemistry and biology," Korea Institute for Advanced Study (Seoul) Sep 2-3, 1996
Box 33, Folder 18	"Transition-state theories of reaction dynamics," Nobel Symposium in Femtochemistry and Femtobiology (Björkborn, Sweden) Sep 9-12, 1996
Box 33, Folder 19	Beckman Auditorium Community Council (BACC) reception, Caltech (Pasadena) Oct 3, 1996
Box 33, Folder 20	"Electron transfers in chemistry and biology--from solar energy conversion to the color of gems," Nobel Laureates Conference, University of California (Irvine) Oct 5, 1996
Box 33, Folder 21	National Academy of Sciences, Center for Photoinduced Charge Transfer, External Advisory Board meeting (Rochester, NY) Oct 28-29, 1996
Box 33, Folder 22	"Reaction rates and dynamics--an overview of the past half century," Symposium on the Role of Chemistry in Modern Science, Princeton, University Oct 30-Nov 2, 1996
Box 33, Folder 23	Microsymposium on Electron Transfer in Proteins (Maui) Nov 9-12, 1996
Box 33, Folder 24	Cátedras Presidenciales en Ciencias 1996 [Chilean Presidential Science Committee] (Santiago) Dec 3-9, 1996
Box 34, Folder 1	Mathematics Benchmarking Panel (Washington, DC) Jan 30-Feb 2, 1997
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Box 34, Folder 4	"Electron transfers in chemistry," Electron Centenary Meeting (Cambridge, England) Mar 22-27, 1997
Box 34, Folder 5	"Unified theory of S N 2 and concentrated electron transfer," Office of Naval Research, Electrochemistry Workshop, Atlanta, GA Apr 2-5, 1997
Box 34, Folder 6	"Electron transfer reaction in chemistry, electrochemistry, and biology," 1997 George B. Kistiakowsky Lecture, Harvard University, Cambridge, MA Apr 21, 1997
Box 34, Folder 7	American Philosophical Society Annual Meeting (Philadelphia) Apr 24-26, 1997
Box 34, Folder 8	Annual Meeting of the National Academy of Sciences (134th: Washington, DC) Apr 26-29, 1997
Box 34, Folder 9	"Electron transfer reaction in chemistry, electrochemistry, and biology," 1997 Bryce Crawford Lectureship in Chemistry, University of Minnesota May 16, 1997
Box 34, Folder 10	Talk at the Pasadena Rotary Club May 21, 1997
Box 34, Folder 11	"Two faces of electron transfer," A. D. Buckingham Conference (Cambridge, England) Jul 10-13, 1997
Box 34, Folder 12	International Chemistry Olympiad (29th: Canada) Jul 13-23, 1997
Box 34, Folder 13	Gordon Research History Symposium (Boston) Aug 7-10, 1997
Box 34, Folder 14	Welch Foundation interview, Caltech (Pasadena) Aug 12, 1997
Box 34, Folder 15	"Electron transfers in chemistry and biology--theory and experiment," 1997 KCASC/KITCS Distinguished Lecture, University of Kansas (Lawrence) Oct 7, 1997
Box 34, Folder 16	"Electron transfer reaction in chemistry, electrochemistry, and biology," 1997 Oesper Symposium (Cincinnati) Oct 8-10, 1997
Box 34, Folder 17	Humboldt Foundation Colloquium (Washington, DC) Oct 25-28, 1997
Box 34, Folder 18	"The stimulating interaction of theory and experiment in reaction kinetics," 1997 Pauling Award Symposium, University of Portland (OR) Nov 8, 1997
Box 34, Folder 19	Nobel reception, Consulate of Sweden (Los Angeles) Dec 4, 1997
Box 35, Folder 1	Office of Naval Research (ONR) Contractors meeting (Ventura) Jan 15-16, 1998
Box 35, Folder 2	"Interaction of theory and experiment in chemical dynamics," Meeting of the Israel Chemical Society (63rd: Tel Aviv) Feb 9-10, 1998

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Box 35, Folder 6	"Electron transfer reaction in chemistry, electrochemistry, and biology," Stauffer Symposium, University of Southern California (Los Angeles) Apr 29, 1998
Box 35, Folder 7	"Electron transfer reaction in chemistry, electrochemistry, and biology," International Symposium on Chemistry, Peking University May 3-6, 1998
Box 35, Folder 8	"Electron transfers in chemistry and biology," Wolf Prize lecture (Jerusalem) May 11-12, 1998
Box 35, Folder 9	"Electron transfer reaction in chemistry, electrochemistry, and biology," Technion (Haifa) May 13, 1998
Box 35, Folder 10	"Experiment and its stimulation of theories of chemical reaction rates and related phenomena," Meeting of Nobel Laureates (16th: Lindau, Germany) Jun 28-Jul 3, 1998
Box 35, Folder 11	Humboldt Foundation Research, Technical University of Munich Aug 1998
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Box 35, Folder 13	"Basic research in reaction rates and some consequences," American Chemical Society meeting (216th: Boston) Aug 23-28, 1998
Box 35, Folder 14	Renaissance Weekend (33rd: Beaver Creek, CO) Sep 2-7, 1998
Box 35, Folder 15	"Recent adventures in reaction rate theory," University of Southern California (Los Angeles) Oct 23, 1998
Box 35, Folder 16	Annual Seaborg Symposium honoring Paul D. Boyer, University of California (5th: Los Angeles) Oct 31, 1998
Box 36, Folder 1	National Academy of Sciences Regional meeting (Irvine) Feb 5, 1999
Box 36, Folder 2	The Linus Pauling Exhibition Committee meeting Mar 13, 1999
Box 36, Folder 3	"The history of chemical physics," American Physical Society, Centennial Celebration (Atlanta) Mar 20-26, 1999
Box 36, Folder 4	American Philosophical Society Annual Meeting (Philadelphia) Apr 21-24, 1999
Box 36, Folder 5	Annual Meeting of the National Academy of Sciences (136th: Washington) Apr 24-27, 1999
Box 36, Folder 6	"From polyelectrolytes to electron transfer at Poly," American Chemical Society Symposium, Polytechnic University (Brooklyn) Apr 28-29, 1999
Box 36, Folder 7	Exhibition: "The Life of Linus Pauling," Caltech (Pasadena) May 14, 1999
Box 36, Folder 8	"Electron transfers in chemistry and biology as we enter the 21st century," Tohwa University International Symposium (9th: Fukuoka, Japan) Jun 8-10, 1999
Box 36, Folder 9	"Electron transfer reactions in chemistry and biology," Humboldt Lectures (Berlin) Jun 14-17, 1999
Box 36, Folder 10	"Statistical calculations of ozone isotopomeric rate constants," International Conference on Stable Isotopes and Isotope Effects (Carré le Rouet, France) Jun 20-25, 1999
Box 36, Folder 11	"Electronic factors at interfaces," Euroconference on Modern Trends in Electrochemistry (Majvik, Finland) Aug 28-Sep 3, 1999
Box 36, Folder 12	"The past one hundred years in kinetics," Wilhelm Bunsen Colloquium (Heidelberg) Oct 15-16, 1999
Box 36, Folder 13	"Electron transfers in chemistry and biology--history and future," Symposium on Solution Chemistry of Japan (22nd: Tokyo) Nov 16-19, 1999
Box 36, Folder 14	"Electron transfers in chemistry and biology--history and future," Asian Conference on Chemistry (8th: Taipei) Nov 21-22, 1999
Box 37, Folder 1	Pitzer Memorial Symposium on Theoretical Chemistry, University of California (Berkeley) Jan 9-13, 2000
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Box 37, Folder 6	"Strange mass independent isotopic behavior?," Harold Johnston American Chemical Society Symposium (San Francisco) Mar 26-30, 2000
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Box 37, Folder 10	"Approximations and analytic methods in rate process," Gordon Research Conference, Chemical Physics Summer School, Roger Williams University (Bristol, RI) Jun 18-30, 2000
Box 37, Folder 11	"Electron transfer reaction in chemistry and biology," Meeting of Nobel Prize Winners (50th: Lindau, Germany) Jun 25-30, 2000
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Box 38, Folder 2	American Chemical Society Nobel Centenary Symposium (San Diego) Apr 1-5, 2001
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Box 38, Folder 6	"Electron transfer--overview and recent developments," Britton Chance Symposium, University of Pennsylvania (Philadelphia) May 2-5, 2001
Box 38, Folder 7	"Ozone formation," Symposium at the German Embassy (Washington, DC) May 19, 2001
Box 38, Folder 8	"Ozone formation," Noyes Lecture, University of Oregon (Eugene) Jun 3-5, 2001
Box 38, Folder 9	"Ion and electron transfers across interfaces," International Conference on Electrified Interfaces, Acadia University (Wolfville, Nova Scotia) Jul 8-13, 2001
Box 38, Folder 10	"Theory and experiment for the strange and uncontroversial isotopic effects in ozone formation," International Symposium on Isotopomers (1st: Yokohama) Jul 23-26, 2001
Box 38, Folder 11	"Isotope effects," Canadian Symposium in Theoretical Chemistry (14th: Ottawa) Aug 5-9, 2001
Box 38, Folder 12	Jeopardy taping (Culver City) Aug 21, 2001
Box 38, Folder 13	"Ion and electron transfers across interfaces," American Chemical Society meeting (222nd: Chicago) Aug 24-29, 2001
Box 38, Folder 14	Fontainebleau Symposium on Innovation and Society (France) Sep 9-15, 2001
Box 38, Folder 15	"Recent studies on charge transfer at interfaces," Norman Sutin Mini Symposium, Brookhaven National Laboratory (Upton, NY) Sep 25, 2001
Box 38, Folder 16	"Strange and unconventional isotopic effects in ozone formation," Brookhaven National Laboratory (BNL) Chemistry Department (Upton, NY) Sep 26, 2001
Box 38, Folder 17	"Electron transfer in chemistry and biology," Medical Research Council (Cambridge, England) Oct 2, 2001
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Box 40, Folder 17	Awards and Honors: Honorary degree Doctor of Science, Polytechnic University (Brooklyn) 1986
Box 40, Folder 18	Awards and Honors: Honorary Doctorate, University of Göteborg (Sweden) 1987
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