

# Trustees, Administration, Faculty



## OFFICERS

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*Vice President for  
Strategic Implementation*  
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*Vice President for  
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*Vice President of Administration and  
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Victoria D. Stratman  
*General Counsel*

Michael M. Watkins  
*Vice President and Director, Jet  
Propulsion Laboratory*

Mary L. Webster  
*Secretary*

## BOARD OF TRUSTEES

### Trustees

*(with date of first election)*

Spencer Abraham (2016)  
*Chairman and Chief Executive Officer  
The Abraham Group LLC*

Sean Bailey (2015)  
*President  
Walt Disney Studios Motion Picture  
Production*

Barbara M. Barrett (2014)

Sabeer Bhatia (2015)  
*Chief Executive Officer and Co-Founder  
Sabse Technologies, Inc.*

Brigitte M. Bren (2009)  
*Attorney*

John S. Chen (2008)  
*Executive Charman of the Board  
and Chief Executive Officer  
Blackberry, Inc.*

Wenchi Chen (2012)  
*President and Chief Executive Officer  
VIA Technologies*

Peggy L. Cherng (2012)  
*Co-Chairman  
Panda Restaurant Group*

Robert B. Chess (2006)  
*Chairman  
Nektar Therapeutics*

David Dreier (2013)  
*Chairman  
Annenberg-Dreier Commission*

Lounette M. Dyer (1998)  
Joshua S. Friedman (2012)  
*Co-founder, Co-Chairman and  
Co-Chief Executive Officer  
Canyon Partners, LLC*

William T. Gross (1994)  
*Founder and Chief Executive Officer  
Idealab*

Narendra K. Gupta (2011)  
*Co-Founder and Managing Director  
Nexus Venture Partners*

David Ho (2015)  
*Scientific Director and Chief Executive  
Officer  
Aaron Diamond AIDS Research Center*

Ann Stimmler Johnson (2016)  
*Chief Executive Officer and Founder  
Interana, Inc.*

G. Bradford Jones (2014)  
*Founding Partner  
Redpoint Ventures*

Peter D. Kaufman (2008)  
*Chairman and Chief Executive Officer  
Glenair, Inc.*

Louise Kirkbride (1995)  
*Board Member  
State of California Contractors  
State License Board*

Walter G. Kortschak (2012)  
*Senior Advisor and Former Managing  
Partner*

Summit Partners, L.P.  
Jon B. Kutler (2005)  
*Chairman and Chief Executive Officer*

Admiralty Partners, Inc.

David Li Lee (2000)  
*Managing General Partner  
Clarity Partners, L.P.*

York Liao (1997)  
*Managing Director  
Winbridge Company Ltd.*

- Alexander Lidow (1998)  
*Chief Executive Officer*  
*EPC Corporation*
- Andrew N. Liveris (2013)  
*Chairman and Chief Executive Officer*  
*The Dow Chemical Company*
- Shirley M. Malcom (1999)  
*Director, Education and Human Resources Programs*  
*American Association for the Advancement of Science*
- Mich J. Mathews-Spradlin (2016)
- Deborah D. McWhinney (2007)  
*Former Chief Executive Officer*  
*Citi Enterprise Payments*  
*Citi Bank*
- Richard Merkin, M.D. (2009)  
*Founder and Chief Executive Officer*  
*Heritage Provider Network*
- Kenneth G. Moore (2014)  
*Director of Bay Area Portfolio and Trustee*  
*Gordon and Betty Moore Foundation*
- Philip M. Neches (1995)  
*Chairman*  
*Foundation Ventures, LLC*
- William H. Rastetter (2015)
- Eduardo A. Repetto (2015)  
*Co-Chief Executive Officer and Co-Chief Investment Officer*  
*Dimensional Fund Advisors*
- Richard H. Scheller (2014)
- Timothy J. Sloan (2016)  
*President and Chief Operating Officer*  
*Wells Fargo & Company*
- Donald W. Tang (2005)  
*Founding Partner*  
*Tang Media Partners*
- Kevin M. Taweel (2012)  
*Chairman*  
*Asurion Corporation*
- David W. Thompson (2012)  
*President and Chief Executive Officer*  
*Orbital ATK, Inc.*
- Senior Trustees**  
*(with date of first election and date of election as Senior Trustee)*
- Gordon M. Binder (1995, 2007)  
*Managing Director*  
*Coastview Capital*
- Robert C. Bonner (2008, 2014)  
*Senior Partner*  
*Sentinel HS Group, L.L.C.*
- Lynn A. Booth (2011)
- John E. Bryson (2014, 2015)
- Milton M. Chang (2005, 2014)  
*Managing Director*  
*Incubic Venture Capital*
- William H. Davidow (1996, 2007)  
*Founding Partner*  
*Mobr Davidow Ventures*
- Thomas E. Everhart (1998, 2004)  
*President Emeritus*  
*California Institute of Technology*
- B. Kipling Hagopian (2012, 2014)  
*Managing Partner*  
*Apple Oaks Partners, L.L.C.*
- Frederick J. Hameetman (2006, 2012)  
*Chairman*  
*Cal-American*
- Maria D. Hummer-Tuttle (2012, 2016)  
*Chair of the Board of Trustees*  
*J. Paul Getty Trust*
- Bobby R. Inman (1989, 2003)  
*Professor, Lyndon B. Johnson Centennial Chair in National Policy*  
*The University of Texas at Austin*
- Robert T. Jenkins (2005, 2015)
- Kent Kresa (1994, 2010)  
*Chairman Emeritus*  
*Northrop Grumman Corporation*
- Ronald K. Linde (1989, 2012)  
*Independent Investor*  
*Chair, The Ronald and Maxine Linde Foundation*  
*Founder/Former Chief Executive Officer*  
*Envirodyne Industries, Inc.*
- A. Michael Lipper (2005, 2007)  
*President and Chief Executive Officer*  
*Lipper Advisory Services, Inc.*
- Patrick H. Nettles (1998, 2016)  
*Executive Chairman*  
*Ciena Corporation*
- Peter Norton (2006, 2016)  
*President*  
*Norton Family Office*
- Ronald L. Olson (1998, 2014)  
*Senior Partner*  
*Munger, Tolles & Olsen*
- Stephen R. Onderdonk (1986, 2016)  
*President and Chief Executive Officer (retired)*  
*Econolite Control Products, Inc.*
- Stewart A. Resnick (2005, 2008)  
*Chairman and President*  
*The Wonderful Company*
- Nelson C. Rising (2006, 2013)  
*Chairman*  
*Rising Realty Partners*
- Stephen A. Ross (1993, 2015)  
*Franco Modigliani Professor of Financial Economics*  
*Massachusetts Institute of Technology*

Marc I. Stern (2014, 2016)  
*Chairman*  
*The TCW Group, Inc.*

Charles R. Trimble (2002, 2013)  
*Founder and Former Chief Executive Officer*  
*Trimble Navigation Ltd.*

Lewis W. van Amerongen (2004, 2012)  
*LexA Enterprises, Inc.*

Walter L. Weisman (1988, 2007)  
*Former Chairman and Chief Executive Officer*  
*American Medical International, Inc.*

Gayle E. Wilson (1995, 2014)  
*Nonprofit Consultant*

Suzanne H. Woolsey (2006, 2014)  
*Woolsey Partners, L.L.C.*

### Life Members

(with date of first election and date of election as Life Trustee)

George L. Argyros (1992, 2008)  
*Chairman and Chief Executive Officer*  
*Arnel and Affiliates*

Stephen D. Bechtel Jr. (1967, 1997)  
*Senior Director*  
*Bechtel Group, Inc.*

Donald L. Bren (1983, 2004)  
*Chairman of the Board*  
*The Irvine Company*

Eli Broad (1993, 2007)  
*Founder*  
*The Eli and Edythe Broad Foundation*

Harold Brown (1969, 2010)  
*President Emeritus*  
*Counselor*  
*Center for Strategic and International Studies (CSIS)*

Walter Burke (1975, 2010)  
*Treasurer*  
*Sherman Fairchild Foundation, Inc.*

Jewel Plummer Cobb (1990, 2005)  
*President Emerita*  
*California State University, Fullerton*

Harry M. Conger (1985, 2007)  
*Chairman & Chief Executive Officer, Emeritus*  
*Homestake Mining Company*

Richard P. Cooley (1973, 2007)  
*Retired Chairman*  
*Seafirst Bank*

Camilla C. Frost (1977, 2007)  
 Arthur L. Goldstein (1995, 2012)  
*Chairman and Chief Executive Officer (Retired)*  
*Ionic, Inc.*

Philip M. Hawley (1975, 1997)  
*Chairman*  
*P. M. Hawley, Inc.*

Gordon E. Moore (1983, 2010)  
*Chairman Emeritus*  
*Chairman Emeritus*  
*Intel Corporation*

Sidney R. Petersen (1980, 2007)  
*Chairman and Chief Executive Officer (Retired)*  
*Getty Oil Company*

Arthur Rock (1988, 1998)  
*Principal*  
*Arthur Rock and Company*

Benjamin M. Rosen (1986, 2005)  
*Chairman Emeritus*  
*Compaq Computer Corporation*

Richard M. Rosenberg (1989, 2007)  
*Chairman and Chief Executive Officer (Retired)*  
*Bank of America Corporation*

Robert J. Schultz (1991, 2002)  
*Vice Chairman (Retired)*  
*General Motors Corporation*

Dennis Stanfill (1976, 1999)  
*Private Investor*

Virginia V. Weldon (1996, 2010)  
*Senior Vice President for Public Policy (Retired)*  
*Monsanto Company*

### Honorary Life Member

Betty I. Moore  
*Cofounder*  
*Gordon and Betty Moore Foundation*

### Standing Committees

**Executive Committee**—D. L. Lee\*, *Chair*; R. K. Linde, *Vice Chair*; R. C. Bonner\*, B. M. Bren\*, R. B. Chess\*, W. H. Davidow\*, J. S. Friedman\*, B. R. Inman, K. Kresa, J. B. Kutler\*, A. Lidow\*, S. M. Malcom\*, P. M. Neches\*, N. C. Rising\*, T. F. Rosenbaum\*, W. L. Weisman, G. E. Wilson, S. H. Woolsey\*; *Consulting Members*: G. E. Moore, B. M. Rosen; *Advisory Members*: D. Jergovic, B. K. Lee, S. H. Richland, M. Steurbaut, E. M. Stolper, V. D. Stratman, M. M. Watkins

**Audit and Compliance Committee**—R. C. Bonner, *Chair*; P. M. Neches, *Vice Chair*; L. Kirkbride, D. L. Lee\*, A. Lidow, R. K. Linde, A. M. Lipper, D. D. McWhinney, S. R. Onderdonk, D.

W. Thompson; *Advisory Members*: M. W. Brewer, M. Goettel, L. D. James, D. Jergovic, P. D. Koyzis, B. K. Lee, J. T. Lum, S. E. Patterson, S. H. Richland, T. F. Rosenbaum, M. Steurbaut, E. M. Stolper, V. D. Stratman, M. M. Watkins

**Conflict Review Subcommittee**—R.

C. Bonner, *Chair ex officio*; R. B. Chess, J. B. Kutler, R. K. Linde, P. M. Neches, P. Norton, S. R. Onderdonk; *Advisory Member*: V. D. Stratman

**Buildings and Grounds Committee**—N.

C. Rising, *Chair*; R. T. Jenkins, *Vice Chair*; L. M. Dyer, T. E. Everhart, D. L. Lee\*, S. R. Onderdonk, T. F. Rosenbaum\*, L. W. van Amerongen; *Consulting Member*: S. D. Bechtel Jr.; *Advisory Members*: J. W. Cowell, H. P. Daily, D. Jergovic, B. K. Lee, S. H. Richland, J. E. Shepherd, M. Steurbaut, E. M. Stolper

**Business and Finance Committee**—

S. H. Woolsey, *Chair*, P. D. Kaufman, *Vice Chair*; B. M. Bren, T. E. Everhart, G. B. Jones, W. G. Kortschak, K. Kresa, D. L. Lee\*, A. Lidow, R. K. Linde, A. M. Lipper, A. N. Liveris, S. M. Malcom, D. D. McWhinney, K. G. Moore, P. M. Neches, T. F. Rosenbaum\*, D. W. Tang, L. W. van Amerongen, W. L. Weisman, ; *Consulting Member*: H. M. Conger; *Advisory Members*: M. Goettel, D. Jergovic, B. K. Lee, J. M. McCallin, S. E. Patterson, S. H. Richland, M. Steurbaut, E. M. Stolper, V. D. Stratman

**Development Committee**—W. H.

Davidow, *Chair*; David T. Dreier, *Vice Chair*; L. A. Booth, J. E. Bryson, M. D. Hummer-Tuttle, R. T. Jenkins, P. D. Kaufmann, K. Kresa, D. L. Lee\*, D. D. McWhinney, T. F. Rosenbaum\*, W. L. Weisman; *Advisory Members*: D. M. Binney, M. E. Haggerty, D. Jergovic, B. K. Lee, V. A. Otten, S. H. Richland, E. M. Stolper

**Executive Compensation Committee**—R.

K. Linde, *Chair*; A. Lidow, *Vice Chair*; D. L. Lee\*, P. M. Neches, W. L. Weisman; *Advisory Members*: J. M. McCallin, T. F. Rosenbaum

**Institute and Alumni Relations Committee**—S. M. Malcom, *Chair*; D.

T. Dreier, *Vice Chair*, W. H. Davidow, L. M. Dyer, W. T. Gross, R. T. Jenkins, L. Kirkbride, D. L. Lee\*, P. M. Neches, S. R. Onderdonk, T. F. Rosenbaum\*; *Advisory Members*: D. M. Binney, H. P. Daily, M. E. Haggerty, D. Jergovic, F. Khadem, B. K. Lee, V. A. Otten, J. E. Shepherd, M. Steurbaut, E. M. Stolper; *Ex Officio Standing Attendees*: Alumni Association President, Alumni Fund Chair, The Associates President, Faculty Chair

**Investment Committee**—J. S. Friedman,

*Chair*; R. K. Linde, *Vice Chair*; B. K. Hagopian, D. L. Lee\*, A. M. Lipper, S. A. Ross, T. F. Rosenbaum\*, T. J. Sloan; *Advisory Members*: L. Lu, S. H. Richland, R. P. Spogli, M. Steurbaut, E. M. Stolper, L. N. West

**Jet Propulsion Laboratory Committee**—J.

B. Kutler, *Chair*; B. M. Barrett, *Vice Chair*; S. Bailey, R. C. Bonner, D. T. Dreier, L. M. Dyer, T. E. Everhart, J. S. Friedman, F. J. Hameetman, B. R. Inman, L. Kirkbride, D. L. Lee\*, D. D. McWhinney, R. N. Merkin, P. M. Neches, P. Norton, R. L. Olson, S. R. Onderdonk, S. A. Resnick, T. F. Rosenbaum\*, C. R. Trimble, W. L. Weisman, G. E. Wilson, S. H. Woolsey; *Consulting Members*: H. Brown, G. E. Moore; *Advisory Members*: H. P. Daily, L. D. James, D. Jergovic, B. K. Lee, J. T. Lum, R. P. O'Toole, M. Steurbaut, E. M. Stolper, V. D. Stratman, M. M. Watkins

**JPL Governance Subcommittee** [A sub-

committee of the JPL Committee]—J. B. Kutler, *Chair ex officio*; B. M. Barrett\*, R. C. Bonner, \*, B. R. Inman, K. Kresa, D. L. Lee\*, T. F. Rosenbaum\*; *Advisory Members*: L. D. James, D. Jergovic, P. D. Koyzis, M. Steurbaut, E. M. Stolper, V. D. Stratman, M. M. Watkins

**Nominating Committee**—B. M. Bren,

*Chair*; A. Lidow, *Vice Chair*; S. Bailey, L. A. Booth, J. S. Chen, N. K. Gupta, M. D. Hummer-Tuttle, B. R. Inman, L. Kirkbride, D. L. Lee\*, R. K. Linde, D. D. McWhinney, R. N. Merkin, R. L. Olson, T. F. Rosenbaum\*, M. I. Stern, D. W. Tang, W. L. Weisman, G. E. Wilson, S. H. Woolsey; *Consulting Members*: S. Ramo, V. V. Weldon; *Advisory Members*: D. Jergovic, B. K. Lee, E. M. Stolper, V. D. Stratman

\* *ex officio member*

### Student Experience Committee—P.

M. Neches, *Chair*; D. D. McWhinney, *Vice Chair*, J. E. Bryson, R. B. Chess, L. M. Dyer, R. T. Jenkins, L. Kirkbride, D. L. Lee\*, Y. Liao, S. M. Malcom; P. H. Nettles Jr., P. Norton, T. F. Rosenbaum\*, R. H. Scheller, D. W. Thompson, C. R. Trimble, S. H. Woolsey; *Consulting Member*: V. V. Weldon; *Advisory Members*: K. L. Gilmartin, D. Jergovic, B. K. Lee, D. C. Rees, J. E. Shepherd, E. M. Stolper, C. A. Weinstein; *Student Advisory Members*: E. Blythe, B. Lepe, M. Post, M. J. Sonola

### Technology Transfer Committee—

R. B. Chess, *Chair*, M. M. Chang, W. Chen, P. T. Cherng, L. M. Dyer, N. K. Gupta, B. K. Hagopian, R. T. Jenkins, W. G. Kortschak, L. Kirkbride, J. B. Kutler, D. L. Lee\*, Y. Liao, P. M. Neches, P. H. Nettles Jr., P. Norton, S. A. Resnick, T. F. Rosenbaum\*, R. H. Scheller, D. W. Tang, K. M. Taweel, C. R. Trimble, L. W. van Amerongen; *Consulting Members*: A. L. Goldstein; *Advisory Members*: K. Bhattacharya, H. Brown, F. Farina, D. Jergovic, B. K. Lee, S. H. Richland, M. Steurbaut, E. M. Stolper, V. D. Stratman

\* *ex officio member*

## ADMINISTRATIVE OFFICERS



Thomas F. Rosenbaum  
*President*



Edward M. Stolper  
*Provost*

Kaushik Bhattacharya

*Vice Provost*

Hall P. Daily

*Director of Government Relations*

Richard E. Fagen

*Chief Information Officer*

Richard F. Flagan

*Chair of the Faculty*

Kevin M. Gilmartin

*Dean of Students*

Diana Jergovic

*Vice President for Strategy  
Implementation*

Brian K. Lee

*Vice President for Development  
and Institute Relations*

Julia McCallin

*Associate Vice President for Human  
Resources*

Sharon E. Patterson

*Associate Vice President for  
Finance and Treasurer*

Douglas C. Rees

*Dean of Graduate Studies*

Scott Richland  
*Chief Investment Officer*  
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*Vice President for Student Affairs*  
Victoria D. Stratman  
*General Counsel*  
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*Vice President of Administration  
and Chief Financial Officer*  
Michael M. Watkins  
*Vice President and Director, Jet  
Propulsion Laboratory*  
Mary L. Webster  
*Secretary, Board of Trustees*  
Cindy A. Weinstein  
*Vice Provost*

### Chairs of Divisions

Stephen L. Mayo  
*Biology*  
Jacqueline K. Barton  
*Chemistry and Chemical  
Engineering*  
Fiona A. Harrison  
*Physics, Mathematics and  
Astronomy*  
Guruswami Ravichandran  
*Engineering and Applied Science*  
John P. Grotzinger  
*Geological and Planetary Sciences*  
Jean-Laurent Rosenthal  
*Humanities and Social Sciences*

### Administrative Committees

**Animal Care and Use** [fills the role of Caltech's Institutional Animal Care and Use Committee—IACUC] (Reports to the Vice Provost for Research)—R. A. Andersen, chair, D. C. Chan, vice chair; J. F. Baer\*, J. Brackman, O. Caglar\* (alternate), P. Dervan (alternate), L. C. Hsieh-Wilson, K. C. Lencioni\*, D. J. Mayo\*, M. Meister, L. Quence\* C. Scislowicz\*, R. Seligman\* (alternate), C. Zuffada\*, Advisor: V. D. Stratman (or her designee)

**Benefits** (Reports to the Vice President of Administration and Chief Financial Officer)—D. M. Grether, *Chair*; A. Boladian, K. Bradshaw, D. Dougherty, C. Hart\*, P. T. Hoffman, M. Jaross\*, J. M.

McCallin\*, J. C. Milbrandt, L. Moffit\*, S. E. Patterson\*, M. Powell-Meeks, S. Proia, R. M. Roessler\*, S. Scoville\*, J. Stock

**Biosafety** [fills the role of Caltech's Institutional Biosafety Committee—IBC] (Reports to the Provost)—J. D. Leadbetter, *Chair*; J. Baer\*, S. Chatterjee, C. K. Cortese, W. Dietrick, G. Fisher-Adams\*, R. Ismagilov, K. Lencioni (alternate), D. Mayo (alternate), S. Mazmanian, L. Quence\*, C. Scislowicz\*, R. P. Seligman\*, Advisor: V. D. Stratman (or her designee)

### Computing Advisory Committee

(Reports to the Provost and the Vice President of Administration and Chief Financial Officer)—B. Fultz, *Chair*; R. W. Clayton, R. E. Fagen, M. Goulet<sup>‡</sup>, P. E. Hopkins, G. J. Jensen, J. T. Kaiser<sup>§</sup>, Y. P. Leong<sup>§</sup>, J. M. McCallin\*, B. V. McKoy, S. E. Patterson, T. Port<sup>‡</sup>, A. T. Ryan<sup>‡</sup>, M. S. Shum, B. M. Simon

### Council on Undergraduate

**Education** (Reports to the Provost)—C. A. Weinstein, *Chair*; P. M. Bellan, K. M. Gilmartin, J. F. Hall, C. Jurca, K. L. Libbrecht, M. N. Morley, J. E. Shepherd, J. M. Stock, B. M. Stoltz

### Environmental Health and Safety

(Reports to the President)—E. M. Stolper, *Chair*; J. W. Cowell\*, J. E. Shepherd, C. Scislowicz\*, M. Steurbaut

### Institute Academic Council

**(IACC)**—E. M. Stolper, *Chair*; J. K. Barton, J. P. Grotzinger, F. Harrison, S. L. Mayo, G. Ravichandran, T. F. Rosenbaum, J.-L. Rosenthal

### Institute Administrative Council

**(IAC)**—T. F. Rosenbaum, *Chair*; J. K. Barton, K. Bhattacharya, J. W. Cowell, H. P. Daily, R. Fagen, F. Farina, R. Flagan, K. M. Gilmartin, J. P. Grotzinger, F. Harrison, D. Jergovic, F. Khadem, P. Koyzis, B. K. Lee, J. Lum, S. L. Mayo, J. M.

McCallin, V. Otten, S. Patterson,  
G. Ravichandran, D. C. Rees, S.  
Richland, J.-L. Rosenthal, R. P.  
Seligman, J. E. Shepherd, M.  
Steurbaut, E. M. Stolper, V. D.  
Stratman, M. M. Watkins, M. L.  
Webster, C. A. Weinstein

**Institute Art** (Reports to  
the Assistant Vice President  
for Engagement and Annual  
Programs)—P. Perona, *Chair*, J-P  
Avouac, D. M. Binney, J. Buchwald,  
E. Chuan, H. P. Daily, K. Faber,  
G. Gage, A. Gao, D. Kremers, D.  
Nelson, J. Rankin, C. S. Smith

**President's Diversity Council**  
(Reports to the President)—C.  
Weinstein, *Chair*; W. M. Clemons,  
Jr., A. Emami, F. Harrison, J.  
M. McCallin, V. J. Orphan, G.  
Ravichandran, G. Refael, B. Wold,  
L. Yariv

**Protection of Human Subjects**  
[fills the role of Caltech's  
Institutional Review Board—IRB]  
(Reports to the Vice Provost for  
Research)—R. Adolphs, *Chair*; R.  
Andersen, *vice chair*, J. Baer, M. E.  
Csete, R. I. Feinberg, M. Gibson, J.  
L. Kirschvink, P. Perona, K. Reimer,  
C. Scislowicz\*, R. Seligman\*, J. M.  
Tyszka\*, K. K. Wong Jr., L. Yariv, C.  
Zuffada, *Advisor*: V. D. Stratman (or  
her designee)

**Radiation Safety** (Reports to the  
Vice President of Administration  
and Chief Financial Officer)—D. S.  
Burnett, *Chair*; B. W. Filippone, H.  
Issaian, W. L. Johnson, A. Kumagai,  
C. Scislowicz\*, S. Shan

**SURF** (Reports to the Provost)—J.  
Jackson, *Chair*, G. Blanquart, D.  
Crewell\*, B. Folsom\*, B. J. Gillen,  
K. Gilmartin, M. Gonzalez\*, E.  
Mantovan, A. Ponce\*, M. Robbins,  
C. Rypisi\*, A. Stathopoulos, Z-G  
Wang

\* *ex officio member*

† *representing graduate students*

‡ *representing undergraduate students*

§ *representing postdoctoral scholars*

## FACULTY OFFICERS AND COMMITTEES 2016–17

### Officers

*Chair*: R. C. Flagan

*Vice Chair*: M. B. Kennedy

*Secretary*: K. L. Haugen

### Faculty Board

D. Asimaki, 2019  
P. D. Asimow, 2019  
G. A. Blake, 2018  
J. Bruck, 2017  
W. M. Clemons, 2018  
M. Desbrun, 2018  
S. G. Djorgovski, 2017  
B. W. Filippone, 2017  
S. A. Hajimiri, 2018  
A. P. Ingersoll, 2017  
H. A. Lester, 2017  
T. F. Miller, 2019  
O. J. Painter, 2019  
A. Stathopoulos, 2017  
J. A. Tropp, 2018  
D. Y. Tsao, 2019  
P. O. Wennberg, 2018  
L. Yariv, 2019

### *Ex Officio:*

J. K. Barton  
K. M. Gilmartin  
J. P. Grotzinger  
F. A. Harrison  
S. L. Mayo  
G. Ravichandran  
D. C. Rees  
T. F. Rosenbaum  
J. -L. Rosenthal  
J. E. Shepherd  
E. M. Stolper

### Steering

R. C. Flagan, *Chair*  
M. Gharib  
K. L. Haugen  
M. B. Kennedy  
E. M. Stolper  
C.A. Weinstein



**Academic Freedom and Tenure**

K. A. Farley, *Chair*  
L. Hillenbrand, 2017  
C. Jurca, 2018  
P. Perona, 2018  
M. Spiropulu, 2018  
J. M. Stock, 2018

**Academic Policies**

C. R. Hitchcock, *Chair*  
B. Hassibi, 2018  
M. B. Kennedy, 2017  
C. S. Parker, 2018  
J. Pine, 2017  
A. L. Sessions, 2017

**Athletics and Physical Education**

T. K. Dennison, *Chair*  
B. W. Filippone, 2017  
P. T. Hoffman, 2019  
M. R. Hoffmann, 2017  
J. L. Kirschvink, 2019  
B. Mitchell\*  
A. G. Siapas, 2018  
B. M. Stoltz, 2018  
J. Whitney\*

**Convocations**

W. C. Brown, *Chair*  
K. M. Gilmartin\*  
M. B. Kennedy\*  
D. Prober, 2019  
D. C. Rees\*  
P. Schroeder, 2019  
L. Yariv, 2019  
N. C. Yeh, 2017

**Core Curriculum Steering**

J. F. Hall, *Chair*  
M. Flach, 2017  
K. M. Gilmartin\*  
P. T. Hoffman, 2017  
M. L. Hunt, 2018  
C. Jurca, 2017  
M. N. Morley\*  
M. Okumura, 2017  
R. B. Patterson, 2018  
B. M. Stoltz, 2017  
K. G. Zinn, 2019

**Curriculum**

A. J. Weinstein, *Chair*  
R. W. Clayton, 2018  
K. M. Gilmartin\*  
L. Hsieh-Wilson, 2018  
G. J. Jensen, 2017  
M. N. Morley\*  
E. S. Phinney, 2019  
P. Schroeder, 2017

**Exchange Programs and Study Abroad (CEPSA)**

H. B. Newman, *Chair*  
T. Agapie, 2018  
J. P. Ampuero Saenz, 2018  
M. Bronner, 2017  
M. Desbrun, 2019  
A. Emami, 2017  
M. N. Morley\*  
J. P. O'Doherty, 2019  
L. Stolper\*  
A. F. Thompson, 2018

**Foreign Students and Scholars**

Z. G. Wang, *Chair*  
D. Asimaki, 2018  
S. Bordoni, 2019  
G. W. Hallinan, 2018  
A. Hoelz, 2019  
A. Rangel, 2017  
A. G. Siapas, 2017  
I. Smith\*

**Freshman Admissions**

P. D. Asimow, *Chair*  
M. Aschbacher, 2019  
J. L. Beauchamp, 2017  
D. Gilmore, 2018  
N. H. Katz, 2017  
K.G. Libbrecht, 2017  
S. R. Quartz, 2019  
S. Shimojo, 2017  
D. J. Stevenson, 2018  
C. M. Umans, 2018  
J. Whitney\*

**Graduate Studies**

V. Chandrasekaran\*  
H. Choo\*  
R. W. Clayton\*  
W. M. Clemons\*

B. Fultz\*  
K. P. Giapis\*  
T. B. Graber\*  
B. A. Hay\*  
L. Hillenbrand\*  
Y. T. Hou\*  
N. Lapusta\*  
B. J. McKeon\*  
M. Meister\*  
O. J. Painter\*  
F. C. Porter\*  
D. C. Rees\*  
M. S. Shum\*  
A. G. Siapas\*  
B. M. Stoltz\*  
A. F. Thompson\*  
C. Umans\*

\**ex officio member*

### **Health**

H. A. Lester, *Chair*  
A. Barr, 2019  
F. Eberhardt, 2017  
K. M. Gilmartin\*  
S. Golwala, 2018  
J. L. Howe\*  
S. C. Miller\*  
B. Mitchell\*  
N. A. Pierce, 2019  
D. C. Rees\*

### **Institute Programs**

J. R. Greer, *Chair*  
B. Brophy\*  
C. A. Hunter, 2019  
A. P. Ingersoll, 2019  
J. M. Jackson, 2019  
B. K. Lee\*  
Z. G. Wang, 2018

### **Library**

P.W. Sternberg, *Chair*  
K. Antelman\*  
B. L. Ehlmann, 2018  
T. B. Graber, 2018  
S. E. Reisman, 2017  
G. Rossman, 2018  
K. C. Schwab, 2018  
V. C. Tsai, 2017

### **Membership and Bylaws**

M. B. Kennedy, *Chair*  
K. L. Haugen\*  
K. C. Border, 2019  
M. Effros, 2018  
N. S. Lewis, 2019  
B. Wernick, 2018

### **Nominating**

G. A. Blake, *Chair*  
T. Agapie, 2017  
M. Desbrun, 2017  
M. H. Dickinson, 2017  
B. W. Filippone, 2017  
T. R. Palfrey, 2017

### **Patents and Relations with Industry**

S. H. Low, *Chair*  
R. J. Deshaies, 2019  
K. P. Giapis, 2019  
R. F. Ismagilov, 2018  
N. A. Pierce, 2017  
M. L. Roukes, 2018  
K. J. Vahala, 2017

### **Scholarships and Financial Aid**

N. Wey-Gomez, *Chair*  
P. D. Asimow\*  
D. Crewell\*  
F. Eberhardt, 2018  
K. M. Gilmartin\*  
D. M. Kochmann, 2017  
C. S. Parker, 2018  
G. Refael, 2018  
S. Shimojo, 2019  
J. Whitney\*

### **Student Life and Housing**

G. A. Blake, *Chair*  
A. Aravin, 2017  
J. L. Beauchamp, 2019  
J. G. Cohen, 2018  
K. M. Gilmartin\*  
K. A. Ligett, 2017  
T. Mannion (non-voting)  
B. Mitchell\*  
D. C. Rees\*  
E. Snowberg\*  
V. C. Tsai, 2017

### **Undergraduate Academic Standards and Honors**

D. P. Weitekamp, *Chair*

J. P. Ampuero Saenz, 2019

P. M. Bellan, 2019

J. F. Brady, 2019

W. C. Brown, 2017

M. H. Dickinson, 2018

K. M. Gilmartin\*

J. R. Heath, 2018

M. N. Morley\*

F. C. Porter, 2018

### **Upperclass Admissions**

D. Asimaki, *Chair*

M. Guttman, 2018

J. A. Jahner, 2019

M. P. Lamb, 2019

S. H. Low, 2019

B. J. McKeon, 2019

T. F. Miller, 2019

M. N. Morley\*

J. Whitney\*

*\*ex officio member*

## STAFF OF INSTRUCTION AND RESEARCH

### Division of Biology and Biological Engineering

Stephen L. Mayo, *William K. Bowes Jr. Leadership Chair*  
Raymond Deshaies, *Executive Officer for Molecular Biology*  
Marianne Bronner, *Executive Officer for Neurobiology*  
Michael Elowitz, *Executive Officer for Biological Engineering*

#### Professors Emeriti

John N. Abelson, Ph.D.  
*George Beadle Professor of Biology*  
Charles J. Brokaw, Ph.D.  
*Biology*  
John J. Hopfield, Ph.D.  
*Roscoe G. Dickinson Professor of Chemistry and Biology*  
Masakazu Konishi  
*Bing Professor of Behavioral Biology*  
Jean-Paul Revel, Ph.D.  
*Albert Billings Ruddock Professor of Biology*  
Melvin I. Simon, Ph.D.  
*Anne P. and Benjamin F. Biaggini Professor of Biological Sciences*  
James H. Strauss, Ph.D.  
*Ethel Wilson Bowles and Robert Bowles Professor of Biology*

#### Professors

Ralph Adolphs, Ph.D.  
*Bren Professor of Psychology and Neuroscience and Professor of Biology*  
John M. Allman, Ph.D.  
*Frank P. Hixon Professor of Neurobiology*  
Richard A. Andersen, Ph.D.  
*James G. Boswell Professor of Neuroscience*  
David J. Anderson, Ph.D.<sup>1</sup>  
*Seymour Benzer Professor of Biology*  
Alexei A. Aravin, Ph.D.  
*Biology*

Frances H. Arnold, Ph.D.  
*Dick and Barbara Dickinson Professor of Chemical Engineering, Bioengineering, and Biochemistry; Director, Donna and Benjamin M. Rosen Bioengineering Center*  
David Baltimore, Ph.D., D.Sc.h.c., D.Phil.h.c., Nobel Laureate  
*Robert Andrews Millikan Professor of Biology*  
Pamela Bjorkman, Ph.D.  
*Centennial Professor of Biology*  
Marianne Bronner, Ph.D.  
*Albert Billings Ruddock Professor of Biology; Executive Officer for Neurobiology*  
Judith L. Campbell, Ph.D.  
*Chemistry and Biology*  
David C. Chan, M.D., Ph.D.  
*Biology*  
Raymond Deshaies, Ph.D.<sup>1</sup>  
*Biology; Executive Officer for Molecular Biology*  
Michael H. Dickinson, Ph.D.  
*Esther M. and Abe M. Zarem Professor of Bioengineering*  
William G. Dunphy, Ph.D.  
*Grace C. Steele Professor of Biology*  
Michael Elowitz, Ph.D.<sup>1</sup>  
*Biology and Bioengineering; Executive Officer for Biological Engineering*  
Morteza Gharib, Ph.D.  
*Hans W. Liepmann Professor of Aeronautics and Bioinspired Engineering; Vice Provost*  
Bruce A. Hay, Ph.D.  
*Biology*  
Rustem F. Ismagilov, Ph.D.  
*Ethel Wilson Bowles and Robert Bowles Professor of Chemistry and Chemical Engineering; Director of the Jacobs Institute for Molecular Engineering for Medicine*  
Grant J. Jensen, Ph.D.<sup>1</sup>  
*Biophysics and Biology*  
Mary B. Kennedy, Ph.D.  
*Allen and Lenabelle Davis Professor of Biology*

<sup>1</sup> Joint appointment with Howard Hughes Medical Institute

Henry A. Lester, Ph.D.  
*Bren Professor of Biology*

Stephen L. Mayo, Ph.D.  
*Bren Professor of Biology and  
 Chemistry; William K. Bowes Jr.  
 Leadership Chair, Division of  
 Biology and Biological Engineering*

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*Luis B. and Nelly Soux Professor of  
 Microbiology*

Markus Meister, Ph.D.  
*Anne P. and Benjamin F. Biaggini  
 Professor of Biological Sciences*

Elliot M. Meyerowitz, Ph.D.  
*George W. Beadle Professor of  
 Biology*

Richard Murray, Ph.D.  
*Thomas E. and Doris Everhart  
 Professor of Control and Dynamical  
 Systems and Bioengineering*

Dianne K. Newman, Ph.D.  
*Gordon M. Binder/Amgen Professor  
 of Biology and Geobiology*

Robert B. Phillips, Ph.D.  
*Fred and Nancy Morris Professor of  
 Biophysics and Biology*

Niles A. Pierce, Ph.D.  
*Professor of Applied and  
 Computational Mathematics and  
 Bioengineering*

Ellen Rothenberg, Ph.D.  
*Albert Billings Ruddock Professor of  
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Michael L. Roukes, Ph.D.  
*Robert M. Abbey Professor of  
 Physics, Applied Physics, and  
 Bioengineering*

Shinsuke Shimojo, Ph.D.  
*Gertrude Baltimore Professor of  
 Experimental Psychology*

Athanasios G. Siapas, Ph.D.  
*Computation and Neural Systems*

Angelike Stathopoulos, Ph.D.  
*Biology*

Paul W. Sternberg, Ph.D.<sup>1</sup>  
*Thomas Hunt Morgan Professor of  
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Doris Ying Tsao, Ph.D.<sup>1</sup>  
*Biology*

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*Howard and Gwen Laurie Smits  
 Professor of Cell Biology*

Erik Winfree, Ph.D.  
*Professor of Computer Science,  
 Computation and Neural Systems,  
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Barbara J. Wold, Ph.D.  
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Changhuei Yang, Ph.D.  
*Professor of Electrical Engineering,  
 Bioengineering, and Medical  
 Engineering*

Kai Zinn, Ph.D.  
*Biology*

#### Assistant Professors

Lea Goentoro, Ph.D.  
*Biology*

Viviana Gradinaru, Ph.D.  
*Biology and Biological Engineering*

Mitchell Guttman, Ph.D.  
*Biology*

Elizabeth J. Hong, Ph.D.  
*Neuroscience*

Yuki Oka, Ph.D.  
*Biology*

David Prober, Ph.D.  
*Biology*

Lulu Qian, Ph.D.  
*Bioengineering*

<sup>1</sup> Joint appointment with Howard Hughes  
 Medical Institute

#### Senior Research Associate Emeriti

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 Ellen G. Strauss, Ph.D.  
 R. Andrew Cameron, Ph.D.

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Brooke Anderson, MS, MA  
 L. Elizabeth Bertani, Ph.D.  
 Justin Bois, Ph.D.  
 Lindsay Bremner, Ph.D.  
 Andres Collazo, Ph.D.  
 Alexandre Cunha, Ph.D.  
 Ciro Donelak, Ph.D.  
 Julie Hoy, Ph.D.  
 Santiago V. Lombeyda, Ph.D.  
 Danny Petrasek, Ph.D.  
 Andrew Steele, Ph.D.  
 Carol Chace Tydell, DVM

#### Research Professors

Akiko Kumagai, Ph.D.  
 Carlos Lois, M.D., Ph.D.  
 Isabelle S. Peter Lashgari Faghani,  
 Ph.D.

Daniel A. Wagenaar, Ph.D.  
Mary An-yuan Yui, Ph.D.

#### **Research Assistant Professors**

Katalin Fejes Toth, M.D., Ph.D.  
Eric Hoopfer, Ph.D.

#### **Senior Faculty Associate**

Alice S. Huang, Ph.D.

#### **Visiting Professors**

Kevin R. Foster, Ph.D.  
Ivo Grosse, Ph.D.  
Carl O. Pabo, Ph.D.

#### **Visiting Associates**

Takuya Akashi, Ph.D.  
Clare Baker, Ph.D.  
Elaine L. Bearer, Ph.D., M.D.  
William L. Caton III, M.D.  
Scott Fraser, Ph.D.  
Jordi Garcia-Ojalvo, Ph.D.  
Elaine Hsiao, Ph.D.  
Yongning He, Ph.D.  
Russell E. Jacobs, Ph.D.  
Brian Lee, M.D., Ph.D.  
Carmel Levitan, Ph.D.  
Charles Liu, M.D., Ph.D.  
Jane Liu, Ph.D.  
Eric Mjolsness, Ph.D.  
Maria Angela Nieto, Ph.D.  
Alexandre Okano, Ph.D.  
Animesh Ray, Ph.D.  
Carmie Puckett Robinson, M.D.  
Ian Ross, M.D.  
Ueli Rutishauser, Ph.D.  
Mohammad Hassan Abdelrahman Shehata, Ph.D.  
Aleksandra Sherman, Ph.D.  
Armand R. Tanguay, Ph.D.  
Matthew Thomson, Ph.D.  
Tarciso Velho, Ph.D.  
Rebecca Maria Voorhees, Ph.D.

#### **Member of the Beckman Institute**

Sonja Hess, Ph.D.

#### **Members of the Professional Staff**

Igor Antoshechkin, Ph.D.  
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L. Elizabeth Bertani, Ph.D.  
Stijn Cassenaer, Ph.D.  
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Andres Collazo, Ph.D.  
Benjamin E. Deverman, Ph.D.  
Rochelle A. Diamond, B.A.  
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Evgeniy V. Lubenov, Ph.D.  
Hans-Michael Muller, Ph.D.  
Ker-hwa Ou, M.S.  
Shirley Pease, B.Sc.  
Andrew J. Ransick, Ph.D.  
Jost Vielmetter, Ph.D.  
Anthony P. West, Jr., Ph.D.  
Xiaowei Zhang, Ph.D.  
Jie Zhou, Ph.D.

#### **Senior Postdoctoral Scholars**

Yaron Antebi, Ph.D.  
Michael Bethune, Ph.D.  
Robert Carrillo, Ph.D.  
Ashwin Gopinath, Ph.D.  
Hiroyuki Hosokawa, Ph.D.  
Nikolai Kandul, Ph.D.  
Maria Papadopoulou, Ph.D.  
Pavan Ramdya, Ph.D.  
Ryan Remedios, Ph.D.  
Gil Sharon, Ph.D.  
Paul Thomas Tarr, Ph.D.  
Grigory Tikhomirov, Ph.D.  
Yun Zhou, Ph.D.

#### **Postdoctoral Scholars**

Aneesh Acharya, Ph.D.  
Eldad Afik, Ph.D.  
Tyson Aflalo, Ph.D.  
Zsuzsa Akos, Ph.D.  
Salome Antolin y Moura de Oliveira e Silva, Ph.D.  
Michelle Armenta Salas, Ph.D.  
Stefan Badelt, Ph.D.  
Sreeram Balasubramanian, Ph.D.  
Namrata Bali, Ph.D.  
Pinglei Bao, Ph.D.  
Brittany Belin, Ph.D.  
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Yazan Nicola Billeh, Ph.D.  
Lacramioara Bintu, Ph.D.

Mario Blanco, Ph.D.  
 Mark Budde, Ph.D.  
 Emily Capra, Ph.D.  
 Stephen Carter, Ph.D.  
 Moon-Yong Cha, Ph.D.  
 Collin Challis, Ph.D.  
 Le Chang, Ph.D.  
 Shijia Chen, Ph.D.  
 Shun Jia Chen, Ph.D.  
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 Vasileios Christopoulos, Ph.D.  
 Hiutung Chu, Ph.D.  
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 William DePas, Ph.D.  
 Bradley Dickerson, Ph.D.  
 Fangyuan Ding, Ph.D.  
 Brian J. Duistermars, Ph.D.  
 Pauline Durand, Ph.D.  
 Roberto Feuda, Ph.D.  
 Andrew Flyak, Ph.D.  
 Kirsten Frieda, Ph.D.  
 Rachel Galimidi, Ph.D.  
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 Cody Geary, Ph.D.  
 Debnath Ghosal, Ph.D.  
 William Tyler Gibson, Ph.D.  
 Ysabel Giraldo, Ph.D.  
 Sertan Kutal Gokce, Ph.D.  
 David Adler Gold, Ph.D.  
 Walter Gabriel Gonzalez, Ph.D.  
 Stephen A. Green, Ph.D.  
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 Harry Gristick, Ph.D.  
 Brandon Henderson, Ph.D.  
 Ulrich Herget, Ph.D.  
 Lisa Marie Hochrein, Ph.D.  
 Sahand Hormoz, Ph.D.  
 Victoria Hsiao, Ph.D.  
 Erica Hutchins, Ph.D.  
 Andrew Jewett, Ph.D.  
 Shuai Jiang, Ph.D.  
 Alok Joglekar, Ph.D.  
 Peter A. Jorth, Ph.D.  
 Tomomi Karigo, Ph.D.  
 Spencer Kellis, Ph.D.  
 Ann Kennedy, Ph.D.  
 Laura Kerosuo-Pahlberg, Ph.D.  
 Collin Kieffer, Ph.D.  
 Daniel Kim, Ph.D.  
 Sebastian Kopf, Ph.D.  
 Theodora Koromila, Ph.D.  
 Ezgi Kunttas-Tatli, Ph.D.  
 Daniel Allen Lee, Ph.D.  
 Han Ju Lee, Ph.D.  
 Guideng Li, Ph.D.  
 Jing Li, Ph.D.  
 Lingyun Li, Ph.D.  
 Pulin Li, Ph.D.  
 Ting Li, Ph.D.  
 Wei Li, Ph.D.  
 Yatang Li, Ph.D.  
 Yuwei Li, Ph.D.  
 Yihan Lin, Ph.D.  
 Theodore Lindsay, Ph.D.  
 Lu Liu, Ph.D.  
 Xing Liu, Ph.D.  
 Francisco Luongo, Ph.D.  
 Ke Lyu, Ph.D.  
 Frank Macabenta, Ph.D.  
 Shrawan Mageswaran, Ph.D.  
 Devdoot Majumdar, Ph.D.  
 Megan Martik, Ph.D.  
 Jennifer Mamrosh, Ph.D.<sup>1</sup>  
 Mati Mann, Ph.D.  
 Joseph Markson, Ph.D.  
 Tara Mastro, Ph.D.  
 Colleen McHugh, Ph.D.  
 Jaciel Medina Tamayo, Ph.D.  
 Artem V. Menykov, Ph.D.  
 Felipe Monteleone Viecelli, Ph.D.  
 Matthew J. Mulcahy, Ph.D.  
 Christina Murko, Ph.D.  
 Brittany D. Needham, Ph.D.  
 Simon Neubauer, Ph.D.<sup>1</sup>  
 Lam Nguyen, DVM, Ph.D.  
 Thang Van Nguyen, Ph.D.  
 Maria Ninova, Ph.D.  
 Georg Oberhofer, Ph.D.  
 Grigorios Oikonomou, Ph.D.  
 Noah Ollikainen, Ph.D.  
 Davi Ortega Ribeiro, Ph.D.  
 Chen-Yin Ou, Ph.D.  
 .Michael Louis Piacentino, Ph.D.  
 Allan Herman Pool, Ph.D.  
 Ignat Printsev, Ph.D.  
 Nathanael Prunet, Ph.D.  
 Mu Qiao, Ph.D.  
 Lisa Racki, Ph.D.  
 Justin Reitsma, Ph.D.  
 Gustavo Rios, Ph.D.  
 John Elliott Robinson, Ph.D.  
 Daniela Roellig, Ph.D.  
 Ivo Ros, Ph.D.  
 Yuan Ruan, Ph.D.<sup>1</sup>  
 Sofia Sakellardi, Ph.D.  
 Timothy Sampson, Ph.D.  
 Luis Oscar Sanchez Guardado, Ph.D.  
 Tomokazu Sato, Ph.D.  
 Hillel Schwartz, Ph.D.  
 Liang She, Ph.D.  
 Chun-Shik Shin, Ph.D.  
 Ryoji Shinya, Ph.D.  
 Amol Shivange, Ph.D.  
 Marcos Simoes Costa, Ph.D.  
 Chanpreet Singh, Ph.D.  
 Melanie A. Spero, Ph.D.

Beth Stadtmueller, Ph.D.  
Vincent Andrew Stepanik, Ph.D.  
Poorna Subramanian, Ph.D.<sup>1</sup>  
Jingjing Sun, Ph.D.  
Min-Kyung Sung, Ph.D.  
Anthony Szempruch, Ph.D.  
Jennifer Treweek, Ph.D.  
Rosa Anna Uribe, Ph.D.  
Floris Van Breugel, Ph.D.  
Bo Wang, Ph.D.  
Han Wang, Ph.D.  
Peter Weir, Ph.D.  
Brandon Weissbourd, Ph.D.<sup>1</sup>  
Wei-Li Wu, Ph.D.  
AnYan, Ph.D.  
Qing Yao, Ph.D.  
Hanako, Yashiro, Ph.D.  
Moriel Zelikowsky, Ph.D.  
Yaru Zhang, Ph.D.  
Boyang Zhao, Ph.D.  
Chunyi Zhou, Ph.D.  
Wei Zhao, Ph.D.

<sup>1</sup> *Joint appointment with Howard Hughes  
Medical Institute*

#### **Visitors**

Rosemary C. Challis, Ph.D.  
Daria Esyunina, Ph.D.  
Constantine Evans, Ph.D.  
Jan Kaminski, Ph.D.  
Rajan Kulkarni, Ph.D.  
Ana Margarita Lago  
    Agrochao, BA, MSc  
Jasna Markovac, Ph.D.  
Helen McBride, Ph.D.  
Alex Nisthal, Ph.D.  
Noelle Stiles, Ph.D.  
Tsu-Te (Judith) Su, Ph.D.  
Jonas Ungerback, Ph.D.  
Yanling Wang, Ph.D.



## Division of Chemistry and Chemical Engineering

Jacqueline K. Barton,  
*Norman Davidson Leadership Chair*

John F. Brady,  
*Executive Officer for Chemical Engineering*

Sarah Reisman,  
*Executive Officer for Chemistry*

Shu-ou Shan,  
*Executive Officer for Biochemistry and Molecular Biophysics*

### Professors Emeriti

Fred C. Anson, Ph.D., D.h.c.  
*Elizabeth W. Gilloon Professor of Chemistry*

John D. Baldeschwieler, Ph.D.  
*J. Stanley Johnson Professor and Professor of Chemistry*

John E. Bercaw, Ph.D.  
*Centennial Professor of Chemistry*

Sunney I. Chan, Ph.D.  
*George Grant Hoag Professor of Biophysical Chemistry*

George R. Gavalas, Ph.D.  
*Chemical Engineering*

Vincent McKoy, Ph.D.  
*Theoretical Chemistry*

John D. Roberts, Ph.D., Dr.rer. Nat.h.c., Sc.D.h.c., D.Sc.h.c.  
*Institute Professor of Chemistry*

### Senior Research Associates Emeriti

Richard E. Marsh, Ph.D.  
*Chemistry*

William P. Schaefer, Ph.D.  
*Chemistry*

### Professors

Theodor Agapie, Ph.D.  
*Chemistry*

Frances H. Arnold, Ph.D.  
*Dick and Barbara Dickinson Professor of Chemical Engineering, Bioengineering, and Biochemistry*

Jacqueline K. Barton, Ph.D., D.Sc.h.c., D.L.h.c.  
*Arthur and Marian Hanisch Memorial Professor of Chemistry; Norman Davidson Leadership Chair, Division of Chemistry and Chemical Engineering*

Jesse L. Beauchamp, Ph.D.  
*Mary and Charles Ferkel Professor of Chemistry*

Geoffrey A. Blake, Ph.D.  
*Cosmochemistry and Planetary Sciences and Chemistry*

John F. Brady, Ph.D.  
*Chevron Professor of Chemical Engineering and Mechanical Engineering*

Judith L. Campbell, Ph.D.  
*Chemistry and Biology*

Garnet K. Chan, Ph.D.  
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William C. Clemons, Ph.D.  
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*Warren and Katharine Schlinger Professor of Chemical Engineering*

Peter B. Dervan, Ph.D., D.Sc.h.c.  
*Bren Professor of Chemistry*

Dennis A. Dougherty, Ph.D.  
*George Grant Hoag Professor of Chemistry*

Richard C. Flagan, Ph.D.  
*Irma and Ross McCollum-William H. Corcoran Professor of Chemical Engineering and Environmental Science and Engineering*

Gregory C. Fu, Ph.D.  
*Altair Professor of Chemistry*

Konstantinos P. Giapis, Ph.D.  
*Chemical Engineering*

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*Charles and Mary Ferkel Professor of Chemistry, Materials Science, and Applied Physics*

Harry B. Gray, Ph.D., D.Sc.h.c., Laureate h.c., Fil.Dr.h.c., D.L.h.c.  
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*Victor and Elizabeth Atkins Professor of Chemistry*

James R. Heath, Ph.D.  
*Elizabeth W. Gilloon Professor and Professor of Chemistry*

Andre Hoelz, Ph.D.  
*Chemistry*

Linda C. Hsieh-Wilson, Ph.D.  
*Chemistry*

Rustem F. Ismagilov, Ph.D.  
*Ethel Wilson Bowles and Robert  
Bowles Professor of Chemistry and  
Chemical Engineering*

Nathan S. Lewis, Ph.D.  
*George L. Argyros Professor and  
Professor of Chemistry*

Rudolph A. Marcus, Ph.D.,  
D.Sc.h.c., Fil.Dr.h.c., D.h.c.,  
Nobel Laureate  
*John G. Kirkwood and Arthur A.  
Noyes Professor of Chemistry*

Stephen L. Mayo, Ph.D.  
*Bren Professor of Biology and  
Chemistry*

Thomas F. Miller III, Ph.D.  
*Chemistry*

Mitchio Okumura, Ph.D.  
*Chemical Physics*

Carl S. Parker, Ph.D.  
*Biochemistry*

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James B. Howard, Ph.D.  
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Eric D. A. Stemp, Ph.D.  
*Chemistry*

Robert D. Tanner, Ph.D.  
*Chemical Engineering*

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Jay R. Winkler, Ph.D.

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 Javier Murciano Calles, Ph.D.  
 Arundha Nag, Ph.D.  
 Koichi Nagata, Ph.D.  
 Ebrahim Najafi, Ph.D.  
 Yasuaki Nakayama, Ph.D.  
 Adela Nano, Ph.D.  
 Saber Naserifar, Ph.D.  
 Alphonsus Ng, Ph.D.  
 Si Nie, Ph.D.  
 Adam Nielander, Ph.D.  
 Nitin Jalindar Pawar, Ph.D.  
 Songming Peng, Ph.D.  
 Thibaud Perriches, Ph.D.  
 Alexandre Persat, Ph.D.  
 Gerit Maria Pototschnig, Ph.D.  
 Christopher Prier, Ph.D.  
 Ushnish Ray, Ph.D.  
 Matthias Richter, Ph.D.  
 Carlos Gabriel Read Rodriguez,  
 Ph.D.  
 Austin Rice, Ph.D.  
 David Kingsland Romney, Ph.D.  
 Enrico Ronca, Ph.D.  
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 Dipanjan Samanta, Ph.D.  
 Brian Sanders, Ph.D.  
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 Jens Schmidt, Ph.D.  
 Michael Schulz, Ph.D.  
 Jonas Schwaben, Ph.D.  
 Gregg Schwarzwald, Ph.D.  
 Oliver Shafaat, Ph.D.  
 Bo Shen, Ph.D.  
 Kaiyuan Shi, Ph.D.  
 Naoki Shida, Ph.D.  
 Philip Shushkov, Ph.D.  
 Alexander Sokolov, Ph.D.  
 Susan Stevenson, Ph.D.  
 Zixue Su, Ph.D.  
 Ke Sun, Ph.D.  
 Xing Wen Sun, Ph.D.  
 Naoyuki Suzuki, Ph.D.  
 Jerzy Olgierd Szablowski, Ph.D.  
 Karsten Thierbach, Ph.D.  
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 Ana Raquel Viegas Correia, Ph.D.  
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 Connie Wang, Ph.D.  
 Jun Wang, Ph.D.  
 Nuo Wang, Ph.D.  
 Zhaobin Wang, Ph.D.  
 Michael Webb, Ph.D.  
 Matthew Welborn, Ph.D.  
 Eric Welin, Ph.D.  
 Ralph Welsch, Ph.D.  
 Daan Witters, Ph.D.  
 William Wolf, Ph.D.  
 Yao Xiao, Ph.D.  
 Xiangyou Xing, Ph.D.  
 Alexander Xu, Ph.D.  
 Chen Xu, Ph.D.  
 Kumiko Yamamoto, Ph.D.  
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 Yunxi Yao, Ph.D.  
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 Pengfei Zhang, Ph.D.  
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 Ran Zhao, Ph.D.  
 Wei Zhao, Ph.D.  
 Zhun Zhou, Ph.D.  
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 Nicholas G. Nickols, M.D. Ph.D.  
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 Andrew Udit, Ph.D.  
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 Ted Yu, Ph.D.  
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- Babak Hassibi, Ph.D.  
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- Yisong Yue, Ph.D.  
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- James B. Breckinridge, Ph.D.\*  
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- Gregory L. Davis, Ph.D.  
*Aerospace*
- Antony R. H. Fender, B.S.  
*Engineering*
- Anthony Freeman, Ph.D.  
*Aerospace*
- Carol M. Garland, B.A.  
*Applied Physics and Materials  
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- Glen A. George, M.S.  
*Electrical Engineering*

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*Applied Physics and Materials Science*

Douglas C. Hofmann, Ph.D.  
*Applied Physics and Materials Science*

Gerard J. Holzmann, Ph.D.  
*Computing and Mathematical Sciences*

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*Engineering*

Rajeev Joshi, Ph.D.\*  
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Eugene Lavretsky, Ph.D.  
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Gillian Pierce, B.A.  
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James E. Polk, Ph.D.  
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Carol W. Readhead, Ph.D.  
*Engineering*

Daniel Scharf, Ph.D.  
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Douglas L. Smith, B.S.\*  
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Michael C. Vanier, Ph.D.  
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Jakob J. Van Zyl, Ph.D.  
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Jennifer E. Weaver, Ph.D.  
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Konstantin M. Zuev, Ph.D.  
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*Art and Design*

Paul W. K. Rothmund, Ph.D.  
*Bioengineering, Computing & Mathematical Sciences, and Computation and Neural Systems*

Manuel Soriaga, Ph.D.  
*Applied Physics and Material Science*

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Monica D. Kohler, Ph.D.  
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## Senior Research Fellows

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*Electrical Engineering and Aerospace*

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G. Jeffrey Snyder, Ph.D.  
*Applied Physics and Materials Science*

## Moore Distinguished Scholar

Petros D. Koumoutsakos, Ph.D.  
*Aerospace*

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Bruno Crosignani, Lib.Doc.  
*Applied Physics and Materials Science*

Ran Libeskind-Hadas, Ph.D.  
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Volnei Pedroni, Ph.D.\*  
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\* In residence 2015–16

### Visiting Associates

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Michael C. Gurnis, *Director, Seismological Laboratory*  
Paul O. Wennberg, *Director, Linde Center for Global Environmental Science*

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Han Yue, Ph.D.  
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Qiong Zhang, Ph.D.  
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*Geochemistry*

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*Planetary Science*

XiaoJuan Ma, DE  
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Shawn McGlynn, PhD  
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Devin McPhillips, PhD  
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Vijay Natraj, Ph.D.  
*Planetary Science*

Jay Pasachoff, Ph.D.  
*Planetary Science*

Avi Shporer, Ph.D.  
*Planetary Science*

Wolfgang Sturhahn, Ph.D.  
*Geophysics*

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Catherine Jurca, *Executive Officer for the Humanities*

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David M. Grether, Ph.D.  
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Daniel J. Kevles, Ph.D.  
*J. O. and Juliette Koepfli Professor of the Humanities*  
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Oscar Mandel, Ph.D.  
*Literature*  
Robert A. Rosenstone, Ph.D.  
*History*  
Thayer Scudder, Ph.D.  
*Anthropology*  
Annette J. Smith, Ph.D.  
*Literature*  
James F. Woodward, Ph.D.  
*J. O. and Juliette Koepfli Professor of the Humanities*

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*Education*  
Shirley A. Marneus, M.A.  
*Theater Arts*

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*Bren Professor of Psychology and Neuroscience and Professor of Biology*  
R. Michael Alvarez, Ph.D.  
*Political Science*

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*Economics*  
John Brewer, Ph.D.  
*Eli and Edye Broad Professor of Humanities and Social Sciences and Professor of History and Literature*  
Warren C. Brown, Ph.D.  
*History*  
Jed Z. Buchwald, Ph.D.  
*Doris and Henry Dreyfuss Professor of History*  
Colin F. Camerer, Ph.D.  
*Robert Kirby Professor of Behavioral Economics*  
Fiona Cowie, Ph.D.  
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Jaksa Cvitanic, Ph.D.  
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 Dimitri P. Q. Mawet, Ph.D.  
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 Frank Rice, M.S.  
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 Bertrand Echenard, Ph.D.  
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 David H. Reitze, Ph.D.  
*Physics*  
 Mark Scheel, Ph.D.  
*Physics*  
 Daniel M. Silevitch, Ph.D.  
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#### **Research Assistant Professors/ Senior Research Fellows**

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*Scott Russell Johnson, Mathematics*  
 Roland de Putter, Ph.D.  
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*Physics, Mathematics and Astronomy*



Jack Sayers, Ph.D.  
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Rory J. E. Smith, Ph.D.  
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Leo C. Stein, Ph.D.  
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Gang Zhou, Ph.D.  
*Sherman Fairchild, Mathematics*

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### Faculty Associate

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John Zweizig, Ph.D.

### Senior Postdoctoral Scholars

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*Astronomy*  
Roland de Putter, Ph.D.  
*Astronomy*  
Marcus Roehrken, Ph.D.  
*High Energy Physics*  
Esayas Shume, Ph.D.  
*Astronomy*  
Rory J. E. Smith, Ph.D.  
*Physics*  
Leo C. Stein, Ph.D.  
*Astrophysics*

### Postdoctoral Scholars

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Haipeng An, Ph.D.  
*McCone, Theoretical Physics*  
Ana Asenjo-Garcia, Ph.D.  
*Physics*  
Christopher Backhouse, Ph.D.  
*Particle Physics*  
Ning Bao, Ph.D.  
*DuBridge, Theoretical Physics*  
Ivano Baronchelli  
*Astronomy*  
Kirk R. Bays, Ph.D.  
*High Energy Physics*  
Joshua Bendauid, Ph.D.  
*Experimental High Energy Physics*  
Jonathan BenTov, Ph.D.  
*Physics*  
Mario Andrea (Mario) Berta, Ph.D.  
*Theoretical Physics*  
Nadejda Blagorodnova Mujortova,  
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*Astronomy*  
Murray Brightman, Ph.D.  
*Physics*  
Alexander Burgers, Ph.D.  
*Experimental Physics*  
David Cook, Ph.D.  
*Astrophysics*  
Christine Corbett-Moran  
*NSF, Numerical Relativity*  
Abigail Tinney Crites, Ph.D.  
*NSF, Physics*  
Elizabeth Crosson, Ph.D.  
*Physics*

Yu (Sophia) Dai, Ph.D.  
*Astrophysics*  
Jennifer Driggers, Ph.D.  
*Physics*  
Sheila Dwyer, Ph.D.  
*Physics*  
Dmitry Duev, Ph.D.  
*Astronomy*  
Alberto de la Torre Duran, Ph.D.  
*Experimental Condensed Matter  
Physics*  
Johannes Eichholz, Ph.D.  
*Experimental Physics*  
Anamaria Effler, Ph.D.  
*Physics*  
Tjonnie Guang Feng Li, Ph.D.  
*Physics*  
Martin Fluder, Ph.D.  
*Lee, Theoretical Physics*  
Felix Fuerst, Ph.D.  
*Physics*  
James Fuller, Ph.D.  
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Shea Garrison-Kimmel, Ph.D.  
*Einstein, Theoretical Astrophysics*  
Tuhin Ghosh, Ph.D.  
*Observational Cosmology*  
David Gonzalez Ovejero, Ph.D.  
*Astrophysics*  
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*Physics*  
John Harter, Ph.D.  
*Physics*  
Marianne Heida, Ph.D.  
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Daniel Hemberger, Ph.D.  
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Shoubaneh Hemmati, Ph.D.  
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*Physics*  
Yichen Huang, Ph.D.  
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Kiwami Izumi, Ph.D.  
*Physics*  
Attila Kovacs, Ph.D.  
*Physics*  
Thomas Kupfer, Ph.D.  
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Gillian Kyne, Ph.D.  
*Physics*

- Astrid Lamberts, Ph.D.  
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- Kirsten Larson, Ph.D.  
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- Ke Li, Ph.D.  
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- Vyacheslav Lysov, Ph.D.  
*Fairchild, Theoretical Physics*
- Ragnhild Lunnan, Ph.D.  
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- Yiqiu Ma, Ph.D.  
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- Thomas Massinger  
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- Daniel C. Masters, Ph.D.  
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- Ryan Mishmash, Ph.D.  
*Lee DuBridge, Theoretical Physics*
- Tomonari Miyashita, Ph.D.  
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- Lorenzo Monceli, Ph.D.  
*Physics*
- Christine Moran, Ph.D.  
*Numerical Relativity*
- David Fabian Mross, Ph.D.  
*Physics*
- Hiroki Nagakura, Ph.D.  
*Physics*
- Rahul Patel, Ph.D.  
*Theoretical Astrophysics*
- Antonio Perreca, Ph.D.  
*Experimental Physics*
- David Radice, Ph.D.  
*Fairchild, Theoretical Physics*
- Vikram Ravi, Ph.D.  
*Millikan, Astronomy*
- Adric Riedel, Ph.D.  
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- Markus Roehrken, Ph.D.  
*High Energy Physics*
- Ryan de Rosa, Ph.D.  
*Physics*
- Garreth Ruane, Ph.D.  
*NSF, Astronomy*
- Eric Sage, Ph.D.  
*Physics*
- Robyn E. Sanderson, Ph.D.  
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*Experimental Physics*
- Jonathan Squire, Ph.D.  
*Fairchild, Theoretical Physics*
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*Astronomy*
- Natalia Storch, Ph.D.  
*Theoretical Astrophysics*
- Christopher M. Swank, Ph.D.  
*Physics*
- Lian Tao, Ph.D.  
*Physics*
- Anders Thygesen, Ph.D.  
*Astronomy*
- Alexander Urban, Ph.D.  
*LIGO*
- Harish Vedantham, Ph.D.  
*Tolman, Experimental Physics*
- Jean-Roch Vlimant, Ph.D.  
*High Energy Physics*
- Andrew Wade, Ph.D.  
*Physics*
- Ji Wang, Ph.D.  
*Astronomy*
- Andrew R. Wetzell, Ph.D.  
*Astrophysics*
- Hao-Yi (Heidi) Wu, Ph.D.  
*Physics*
- Si Xie, Ph.D.  
*Millikan Experimental Physics*
- Liuyan Zhao, Ph.D.  
*Tolman, Experimental Physics*
- Adi Zitrin, Ph.D.  
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*Chief Information Officer*

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*Library Operations Manager*  
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*Head of Access & Fulfillment Services*

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B.Sc., Cairo University, 1979; M.S.E.E., Georgia Institute of Technology, 1981; Ph.D., Caltech, 1983. Garrett Research Fellow in Electrical Engineering, 1983; Assistant Professor, 1983-89; Associate Professor, 1989-94; Professor, 1994-.

**Allan J Acosta, Ph.D.**, *Richard L. and Dorothy M. Hayman Professor of Mechanical Engineering Emeritus*, B.S., Caltech, 1945; M.S., 1949; Ph.D., 1952. Assistant Professor, 1954-58; Associate Professor, 1958-66; Professor, 1966-90; Hayman Professor, 1990-93. Hayman Professor Emeritus, 1993-. Executive Officer for Mechanical Engineering, 1988-93.

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**Andreas Aebi, Lecturer in German**  
M.A., University of Southern California, 1970; Ph.D., 1974. Lecturer in French, Caltech, 1978; Lecturer in German, 1978-83;

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**Arden L Albee, Ph.D.**, *Professor of Geology and Planetary Science, Emeritus*  
A.B., Harvard College, 1950; A.M., Harvard University, 1951; Ph.D., 1957. Visiting Assistant Professor, Caltech, 1959-60; Associate Professor of Geology, 1960-66; Professor, 1966-99; Professor of Geology and Planetary Science, 1999-2002; Professor Emeritus, 2002-. Academic Officer, Geological and Planetary Sciences, 1971-79; Chief Scientist, Jet Propulsion Laboratory, 1979-84; Dean of Graduate Studies, 1984-2000.

**Jason F Alica, Ph.D.**, *Professor of Theoretical Physics*  
B.S., University of Florida, 2001; M.A., University of California (Santa Barbara), 2005; Ph.D., 2007. Associate Professor, Caltech, 2012-15; Professor, 2015-.

**Clarence R Allen, Ph.D.**, *Professor of Geology and Geophysics, Emeritus*  
B.A., Reed College, 1949; M.S., Caltech, 1951; Ph.D., 1954. Assistant Professor, 1955-59; Associate Professor, 1959-64; Professor, 1964-90; Professor Emeritus, 1990-. Interim Director, Seismological Laboratory, 1965-67; Acting Chairman, Division of Geology, 1967-68.

**John M Allman, Ph.D.**, *Frank P. Hixon Professor of Neurobiology*  
B.A., University of Virginia, 1965; A.M., University of Chicago, 1968; Ph.D., 1971. Assistant Professor, Caltech, 1974-77; Associate Professor, 1977-84; Professor, 1984-89; Hixon Professor, 1989-.

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**David J Anderson, Ph.D.,** *Seymour Benzer Professor of Biology, Investigator, Howard Hughes Medical Institute*  
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Caltech, 1980-81; Instructor, 1981-82;  
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Professor of History and Social Science,  
1984-95; Professor, 1995-2003; Richard and  
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2009. Caltech, 2011-.

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B.S., Hokkaido University (Japan), 1956;  
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1963. Professor of Biology, Caltech, 1975-  
80; Bing Professor, 1980-13; Bing Professor,  
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Biology, 1977-80.

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B.Sc., Technion-Israel Institute of  
Technology, 1981; M.Sc., Tel Aviv  
University, 1983; A.M., Harvard University,  
1985; Ph.D., 1990. Instructor, Caltech, 1989-  
90; Assistant Professor, 1990-96; Associate  
Professor, 1996-2005; Professor, 2005-.

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B.S., Caltech, 1983; M.S., 1984; Ph.D.,  
Stanford University, 1988. Assistant Professor,  
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Research Fellow, Caltech, 1992-94; Millikan  
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