



**Nomination Guidelines and Application Form**

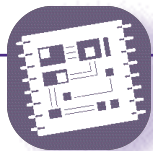
# **2004 California Scientist of the Year**

**Deadline: December 5, 2003**

**Sponsored by**

**California Science Center**

**California Science Center Foundation**





## California Science Center

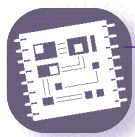
The California Science Center exists to serve the people of California as a center for enhancing scientific and technological literacy through exhibits and programs based on experience and participation.

The Science Center is a department of the State of California. Its non-profit affiliate, the California Science Center Foundation, provides support for the exhibits and educational programs.

The Science Center's mission is to stimulate and nurture interest in science, mathematics and technology, to take an interdisciplinary approach that places them in a social and cultural context, and to provide leadership within the science education community. This is accomplished with the belief that knowledge of scientific principles, processes and applications is vital to the growth of every individual.

The California Science Center has entered the second phase of a major program of renovation and revitalization that began 15 years ago and culminated in February 1998 with the opening of a new 245,000-square-foot facility containing the first two of four theme areas. In accordance with the award-winning master plan for Exposition Park, the groundbreaking for the new Science Center Elementary School took place in February 2002. Operated jointly by the California Science Center and the Los Angeles Unified School District, this effort will assure the Science Center's continued pre-eminence among science centers and place it at the forefront of innovative science education nationally. The Science Center hosted its millionth visitor just four months after opening and, during mid-July of its opening year, celebrated its 1,500,000th guest. Over 400,000 school children visited the Science Center between its grand opening on February 7, 1998 and the close of the academic school year on June 10.

In addition to its permanent exhibits and supporting educational programming, the California Science Center each year hosts several traveling exhibits, sponsors science workshops for children, provides research experiences for high school students and sponsors the annual California State Science Fair.



## Why the Awards?

Throughout the 20th century, California has played a prominent role in the nation's industrial and scientific development. California ranks first nationally in aerospace, agriculture, construction and other industries.

California has also produced its share of outstanding scientists, including eleven who have earned the California Scientist of the Year honors before becoming Nobel Laureates.

Each year, the California Science Center and its non-profit affiliate, the California Science Center Foundation, recognize the accomplishments of established and rising leaders in these fields through the California Scientist of the Year Award.

The Board of Directors of the California Science Center and the Board of Trustees of the California Science Center Foundation take deep pride in inviting you to help recognize California's leading scientists by nominating deserving candidates for the Award. Nominations of outstanding women and minority candidates are especially encouraged.

In keeping with the California Science Center's mission regarding public awareness of science, the outstanding achievements of the 2004 California Scientist of the Year will be formally honored during the spring.

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Governor

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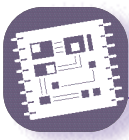
## 2004 California Scientist of the Year Nomination Entry Guidelines

1. The California Scientist of the Year Award annually recognizes outstanding accomplishments in the fields of science or mathematics.
2. The 2004 California Scientist of the Year will receive \$5,000. Awards are donated by the California Science Center Foundation. Names of past Award recipients are displayed at the Science Center.
3. Competition is open to any resident of California with the exception of recipients of the Nobel Prize, Atoms for Peace Award, Fermi Prize, Pulitzer Prize, the Fields Medal and past winners of the California Scientist of the Year Award. A jury of distinguished individuals will determine the winner based on the information provided in this application form.
4. The California Scientist of the Year Award is given for achievements attained over the past five years.
5. Individuals or groups may recommend a candidate by submitting the enclosed form. There are no other entry requirements. It is anticipated that some scientists will place their own names and work in nomination. In other cases, individuals and organizations will submit nominations on behalf of others. All nominations are welcome.
6. Each nomination must be made on the enclosed form. All forms and the required additional documentation must be received by the Science Center no later than the **December 5, 2003** deadline. Eight (8) copies of the nomination form and all additional documentation must be submitted for review by members of the Scientist of the Year selection jury. Individuals or organizations submitting nominations should be prepared to provide further information promptly, if requested.
7. Additional forms may be obtained without charge from the California Science Center. The Science Center will circulate nomination guidelines and application forms to universities and colleges, research institutions, research departments of corporations and other appropriate locations.

## Science Award Rules

1. **Eligible Fields.** The Award to the California Scientist of the Year will be made to a person in any field of the sciences, including mathematics, technology and the physical or biological sciences. Scientists whose work cannot be published for security reasons also may be nominated.
2. **Factors in Selection.** The prime factor in selection will be a current contribution to science which extends the boundaries in any field of science. To qualify, a contribution shall have been brought to fruition during the past five years and should be easily recognizable as a definite advance of knowledge, or a contribution to that advance or a significant technological development.  

The achievement for which an Award is granted should be as close in time as possible, relatively speaking, to the time that the Award is made, dramatizing current progress in science in California.
3. **Limitations.** (1) An individual may not receive the Award more than once. (2) Because scientific discoveries and technological advances are often the result of team effort, the Award jury will endeavor to single out the individual most responsible for the genesis of an important contribution.
4. **Documentation.** Completion of the enclosed official nomination form shall constitute the required documentation. Additional documentation, including published articles and letters of support from colleagues and peers that identify and explain the significance of the contribution and the nominee's specific role, are recommended.



## Past California Scientist of the Year Award Recipients

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1958	Heinz L. Fraenkel-Conrat, Ph.D. University of California at Berkeley	1980	Norman R. Davidson, Ph.D. California Institute of Technology
	*William A. Fowler, Ph.D. (1983) California Institute of Technology	1981	Peter M. Goldreich, Ph.D. California Institute of Technology
1959	*Robert Hofstadter, Ph.D. (1961) Stanford University		Paul L. Richards, Ph.D. University of California at Berkeley
1960	*Luis W. Alvarez, Ph.D. (1968) University of California at Berkeley	1982	*J. Michael Bishop, M.D. (1989) University of California at San Francisco
1961	Frank Press, Ph.D. California Institute of Technology		*Harold E. Varmus, M.D. (1989) University of California at San Francisco
1962	William M. Fairbank, Ph.D. Stanford University	1983	James Collman, Ph.D. Stanford University
1963	Saul Winstein, Ph.D. University of California at Los Angeles	1984	Michael H. Freedman, Ph.D. University of California at San Diego
1964	*Paul Berg, Ph.D. (1980) Stanford University	1985	Leroy Hood, Ph.D. California Institute of Technology
1965	Jesse L. Greenstein, Ph.D. California Institute of Technology	1986	Gerry Neugebauer, Ph.D. California Institute of Technology
	Maarten Schmidt, Ph.D. California Institute of Technology	1987	John Clarke, Ph.D. University of California at Berkeley
1966	H.A. Barker, Ph.D. University of California at Berkeley	1988	Harry B. Gray, Ph.D. California Institute of Technology
1967	Wolfgang K.H. Panofsky, Ph.D. Stanford University	1989	*George A. Olah, Ph.D. (1994) University of Southern California
1968	Robert L. Sinsheimer, Ph.D. California Institute of Technology	1990	Elizabeth F. Neufeld, Ph.D. University of California at Los Angeles
1969	Dr. Walter H. Munk, Ph.D. University of California at San Diego	1991	John J. Hopfield, Ph.D. California Institute of Technology
1970	Earl R. Parker University of California at Berkeley	1992	*Kary B. Mullis, Ph.D. (1993) Atomic Tags, Inc.
1971	Peter Duesberg, Ph.D. University of California at Berkeley	1993	Hiroo Kanamori, Ph.D. California Institute of Technology
1972	*Roger Wolcott Sperry, Ph.D. (1981) California Institute of Technology	1994	Robert Tjian, Ph.D. University of California at Berkeley
1973	*Arthur L. Schawlow, Ph.D. (1981) Stanford University		Ronald Evans, Ph.D. The Salk Institute for Biological Studies
	Theodor W. Hansch, Ph.D. Stanford University	1995	Richard Lerner, M.D. The Scripps Research Institute
1974	*Donald J. Cram, Ph.D. (1987) University of California at Los Angeles		Peter G. Schultz, Ph.D. University of California at Berkeley
1975	Peter K. Vogt, Ph.D. University of Southern California	1996	Richard N. Zare, Ph.D. Stanford University
1976	George V. Taplin, M.D. University of California at Los Angeles	1999	Elizabeth H. Blackburn, Ph.D. University of California at San Francisco
1977	Gerson Goldhaber, Ph.D. University of California at Berkeley	2000	Geoffrey W. Marcy, Ph.D. University of California at Berkeley
1978	John M. Dawson, Ph.D. University of California at Los Angeles	2002	Irving L. Weissman, M.D. Stanford University
1979	Shing-Tung Yau, Ph.D. Stanford University	2003	Andrew Lange, Ph.D. California Institute of Technology
			Saul Perlmutter, Ph.D. University of California at Berkeley

\*Nobel Laureate (Year)



2004 California Scientist of the Year  
Nomination Form  
Application Deadline: Friday, December 5, 2003

Nominee Information

Name \_\_\_\_\_

Home Address \_\_\_\_\_

Daytime Telephone \_\_\_\_\_ Evening Telephone \_\_\_\_\_

Employer \_\_\_\_\_

Current Position or Title \_\_\_\_\_

Office Address \_\_\_\_\_

Date and Place of Birth \_\_\_\_\_

Schools Attended:

Degrees:

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Past Positions or Titles Held:

Dates:

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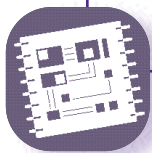
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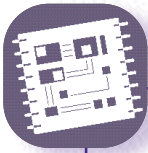
Publications Relating to the Achievement (If achievement is represented by classified materials, provide as much description as possible):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Professional, Business, Community Service, or Other Organizational Activities and Affiliations:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





### Essay Questions

Please answer the following questions, and attach typed or printed responses to this application form. You may use as many words as necessary to answer the questions thoroughly.

1. What outstanding contribution has the nominee made in his or her field?
2. What are the benefits or potential benefits of this contribution to the general welfare of the people?

### Additional Required Materials/Documents

Please submit as part of the nomination process:

1. One or more evaluations by competent individuals describing the contribution for which this nomination was made.
2. Published or unpublished articles, reports or information bearing on achievement.
3. 8"x10" or 5"x7" glossy print photograph of nominee and biography or curriculum vitae to be used for publicity purposes.
4. Additional information pertinent to this nomination.

### Nominator Information

Name \_\_\_\_\_

Home Address \_\_\_\_\_

Daytime Telephone \_\_\_\_\_ Evening Telephone \_\_\_\_\_

Employer \_\_\_\_\_

Current Position or Title \_\_\_\_\_

Office Address \_\_\_\_\_

### Important Reminders

- This entire form must be completed, regardless of the extent of other materials submitted.
- Eight (8) copies of this nomination form and all additional documentation must be submitted for review by members of the California Scientist of the Year selection jury.

### Mail or Deliver to:

California Scientist of the Year Award  
 California Science Center  
 700 State Drive  
 Los Angeles, CA 90037  
 Attention: Dr. Kenneth E. Phillips, Curator  
 Tel: (213) 744-2216 fax: (213) 744-7579  
 E-mail: [kphillips@cscmail.org](mailto:kphillips@cscmail.org)

