



Charles Stark Draper Prize

NATIONAL ACADEMY OF ENGINEERING

2101 Constitution Avenue, N.W., Washington, DC 20418 USA
Telephone (202) 334-1237; FAX (202) 334-1595

November 1, 1996

CHARLES STARK DRAPER
PRIZE COMMITTEE

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Professor of Civil Engineering
and Applied Mechanics
California Institute of Technology

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Graduate Research Professor of
Engineering Sciences, Emeritus
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U.S. Department of Commerce

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for Imaging Science
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ALVIN W. TRIVELPIECE
Director, Oak Ridge National Laboratory
President, Lockheed Martin Energy
Research Corporation

JAMES WEI
Dean, School of Engineering
and Applied Science
Princeton University

Dear NAE Member:

I would like to ask for your participation in the call for nominations for the 1997 Charles Stark Draper Prize.

As you know, the Draper Prize is presented every two years for outstanding achievement in engineering and technology contributing to the advancement of human welfare and freedom. It is intended to increase public understanding of the contributions of engineering and technology to society. The 1997 Prize consists of a gold medallion and a \$450,000 honorarium, and is open to any living person.

So that the Draper Prize will continue to recognize the truly outstanding men and women of the engineering world, we would like to ask you, our members, to nominate candidates for the 1997 Prize, or serve as a bridge between a nominator and the Academy. You will find enclosed a nomination packet for your use or for you to give to your colleagues.

Your assistance is very much appreciated. If you have questions concerning the procedure, or wish to receive additional nomination packets, please contact Charles E. Blue on (202) 334-1237, by Fax on (202) 334-1595, via the Internet at cblue@nae.edu, or at the letterhead address.

With best regards.

Sincerely,

Wm. A. Wulf
Interim President

REGULATIONS AND PROCEDURES

I Selection Criteria

The Prize will be awarded for outstanding achievement in engineering and technology contributing to the advancement of human welfare and freedom. Primary consideration will be given to innovative engineering achievements and their reduction to practice in ways that have led to important benefits and significant improvements in the well-being and freedom of humanity.

- (a) The Prize may be awarded for a specific achievement or for a body of work extending over a period of years.
- (b) Consideration will be given to achievements in all engineering disciplines.
- (c) Candidates for the Prize must be living persons.
- (d) The Prize may be awarded to an individual or a group of individuals contributing to the same achievement.
- (e) Individuals from all nations are eligible. The Prize will be awarded on an international scale of values.

2 Nominations

- (a) There are no restrictions on who may make nominations for the Prize. Solicitations are sent to members and foreign associates of the U.S. National Academy of Engineering, foreign engineering academies, and other organizations and persons from around the world.
- (b) A separate nomination form must be used for each candidate. If more than one candidate is nominated for the same achievement, only one Summary of Accomplishments form should be submitted. The specific contributions of each individual should be described clearly.
- (c) The nomination form and Summary of Accomplishments must be typewritten in English.

3 Supporting Letters

- (a) At least three supporting letters are required for each nomination. Nominations lacking supporting letters will not be considered.
 - (b) Supporting letters may accompany the nomination form or may be sent separately. The deadline for receipt of supporting letters is the same as that established for receipt of the nomination form.
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The "father of inertial navigation," Charles Stark Draper evolved the theory, invented and developed the technology, and led the effort that brought inertial navigation to operational usage in aircraft, space vehicles, and submarines. Founder of Draper Laboratory in Cambridge, Massachusetts, and Institute Professor at the Massachusetts Institute of Technology (MIT), he stands as a pioneer among aircraft engineers. Such monumental efforts as the Apollo moon landing and the guidance systems for strategic missiles bear the stamp of his genius. Modern aircraft the world over travel their global air routes with pinpoint accuracy using inertial guidance systems derived from his original inventions.

As a member of the MIT faculty and head of the Department of Aeronautics and Astronautics, Draper developed an extensive program in instrumentation and control. His team of students and technicians at MIT expanded to become the MIT Instrumentation Laboratory, and in 1973 that lab became a separate, nonprofit research and development laboratory—The Charles Stark Draper Laboratory, Inc.

The Charles Stark Draper Prize was established by the National Academy of Engineering at the request of the Charles Stark Draper Laboratory, Inc. to honor the memory of Charles Stark Draper and to increase public understanding of the contributions of engineering and technology to the welfare and freedom of humanity. Endowment for the Draper Prize was provided by the Charles Stark Draper Laboratory, Inc.

Previous recipients and their achievements are listed below:

1989: Jack S. Kilby and Robert N. Noyce for their independent development of the monolithic integrated circuit.

1991: Sir Frank Whittle and Hans J.P. von Ohain for their independent development of the turbojet engine.

1993: John Backus for his development of the FORTRAN computer language.

1995: John R. Pierce and Harold A. Rosen for their development of communication satellite technology.

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JAMES WEI
Dean, School of Engineering and Applied Science
Princeton University

NATIONAL ACADEMY OF ENGINEERING

November 1, 1996

Dear Colleague:

The U.S. National Academy of Engineering (NAE) invites you to nominate candidates for the Charles Stark Draper Prize, which will be announced in 1997 and awarded in 1998. The award is presented biennially by the NAE for outstanding achievement in engineering and technology contributing to the advancement of human welfare and freedom. Primary consideration is given to innovative engineering achievements and their reduction to practice in ways that have led to important benefits and significant improvements in the well-being and freedom of humanity. The 1997 Prize consists of a citation, a gold medallion, and a \$450,000 honorarium.

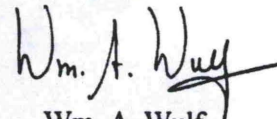
Individuals from all nations are eligible to receive the Prize. Nominations for the 1997 award must be postmarked by February 21, 1997. Materials postmarked after that date are not eligible for the 1997 Prize and will be retained for consideration in the next Prize cycle. Nominations should be sent to:

Mr. Charles E. Blue
Charles Stark Draper Prize
National Academy of Engineering
2101 Constitution Avenue, N.W., NAS 069
Washington, DC 20418 USA
FAX: (202) 334-1595
Internet: CBLUE@NAE.EDU

The regulations and procedures and background of the award are enclosed for your convenience. Questions concerning the procedures or requests for additional information or nomination forms should be directed to Mr. Blue at the above address or by telephone at (202) 334-1237.

The National Academy of Engineering appreciates your participation in this prestigious award program.

Sincerely,



Wm. A. Wulf
Interim President

CHARLES STARK DRAPER PRIZE

Nomination Form (Form must be typewritten in English)

A summary of the nominee's accomplishments must accompany this nomination on the attached form. If more than one individual is being nominated for the same accomplishment, Blocks 1-4 should be completed on a separate form for each individual and submitted with a single Summary of Accomplishments.

1. CANDIDATE'S NAME:

| Last | First | Middle | Date of Birth | Citizenship |
|------|-------|--------|---------------|-------------|
| | | | | |

2. ADDITIONAL CANDIDATE(S) FOR JOINT NOMINATION:

3. POSITION AND AFFILIATION (include complete mailing address and telephone number):

4. HOME ADDRESS (include complete mailing address and telephone number):

PROPOSED CITATION (not more than 25 carefully edited words that reflect specific, documented contributions):

NOMINATOR (include name, title, organization, address, and telephone number):

Nominator's signature:

SUPPORTING LETTERS ARE BEING REQUESTED FROM THE FOLLOWING INDIVIDUALS (no fewer than three required):

- | | |
|-----|-----|
| (1) | (4) |
| (2) | (5) |
| (3) | (6) |
-

The nomination form(s), Summary of Accomplishments, and supporting letters for the 1997 Charles Stark Draper Prize must be **postmarked by February 21, 1997**. Materials postmarked after that date are not eligible for the 1997 Prize and will be retained for the next Prize cycle.

| | | | |
|----------|-----------------------------------------|------------|----------------|
| Mail to: | Mr. Charles E. Blue | Telephone: | (202) 334-1237 |
| | Charles Stark Draper Prize | FAX: | (202) 334-1595 |
| | National Academy of Engineering | Internet: | CBLUE@NAE.EDU |
| | 2101 Constitution Avenue, N.W., NAS 069 | | |
| | Washington, DC 20418 USA | | |

CHARLES STARK DRAPER PRIZE

CANDIDATE(S) NAME(S):

(Include all candidates' names for joint nominations)

SUMMARY OF ACCOMPLISHMENTS:

CHARLES STARK DRAPER PRIZE

CANDIDATE(S) NAME(S):

(Include all candidates' names for joint nominations)

SUMMARY OF ACCOMPLISHMENTS (continued - page 2):

CHARLES STARK DRAPER PRIZE

CANDIDATE(S) NAME(S):

(Include all candidates' names for joint nominations)

SUMMARY OF ACCOMPLISHMENTS (continued - page 3):

NOMINATOR'S SIGNATURE

DATE