

The Cosmic Blueprint

New Discoveries in
Nature's Creative Ability
to Order the Universe

With each successive work, physicist Paul Davies — author of *God and the New Physics* and *Superforce* — journeys further into the fascinating mysteries of creation. In *The Cosmic Blueprint*, he rejects the idea of a universe at the mercy of random forces, advancing an argument for the existence of a predestined universal plan — an essential, progressively unfolding order.

By Paul Davies

Attempting to understand the secret creative power that bestows unity upon nature, Davies draws on recent discoveries in fields as diverse as brain research, biological evolution, computers and astrophysics. He argues that all matter and energy have the ability to **self-organize** according to common holistic principles. Examining these principles, Davies suggests that the universe develops toward progressively higher levels of complex self-organization — from the pattern of a snowflake to the structure of organisms to the “cosmic blueprint” governing the entire structure of the universe.

—from the publisher

Contents include:

- The missing arrow
- Complexity
- Chaos
- Charting the irregular
- The source of creation
- The quantum factor

Science News Books, 1719 N Street, NW, Washington, DC 20036

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“Bringing a light touch to technical enigmas, [Davies] develops a cosmic viewpoint that will appeal to those who want a universe full of meaning and purpose.”

—Publishers Weekly

Simon & Schuster, 1988, 223 pages, paperback, \$8.95
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50th Westinghouse Science Talent Search

\$205,000 in scholarships will be awarded to high school seniors in the 50th Westinghouse Science Talent Search for research projects in science, mathematics and engineering. The increase, from \$140,000, will apply to students entering the competition during the 1990-91 school year.

One	\$40,000 scholarship	(\$10,000 per year for 4 years)
One	\$30,000 scholarship	(\$7,500 per year for 4 years)
One	\$20,000 scholarship	(\$5,000 per year for 4 years)
Three	\$15,000 scholarships	(\$3,750 per year for 4 years)
Four	\$10,000 scholarships	(\$2,500 per year for 4 years)
Thirty	\$ 1,000 scholarships	(payable upon matriculation)

Basic Requirements — Entrants must be high school seniors during the 1990-91 school year. Primary emphasis is placed on a written report of an independent research project in the physical sciences, behavioral and social sciences, engineering, mathematics, or biological sciences (excluding live vertebrate experimentation). The research project must be the work of a single individual. Group projects are not eligible. An Entry Form, designed to elicit evidence of creativity and interest in science, is also required, along with an official high school transcript, available standardized test scores, and statements and recommendations from teachers and/or supervising scientists.

Winners Selection — Three hundred semifinalists are selected from entries received (usually about 1,500) after careful evaluation by a team of 20 evaluators and judges specializing in a variety of scientific disciplines. Forty finalists are then selected from the semifinalists and invited to Washington, D.C., for final judging by a board of eight distinguished scientists.

The Rewards — Three hundred semifinalists benefit in the following ways: (1) recommendations to colleges and universities for admission and financial assistance, (2) certificates of achievement for students and teachers, (3) a sense of accomplishment and a measure of self-esteem that comes from finishing a difficult assignment. The forty finalists, selected from the semifinalists, are also awarded a trip to Washington for the five-day, all-expenses-paid Science Talent Institute for final judging and a chance to share \$205,000 in scholarships.

Sponsors — Since its inception in 1942, the Science Talent Search has been funded by Westinghouse Electric Corporation and administered by Science Service, a Washington-based nonprofit organization.

Important Dates

August 15, 1990
Entry Materials Available for Request
December 10, 1990
Deadline for Receipt of Entry
January 25, 1991
300 semifinalists and 40 finalists announced
February 28-March 5, 1991
Trip to Washington, D.C., selection of top scholarship winners, ceremony and banquet

Entry Deadline

(varies from year to year)

All entries for the 50th Westinghouse Science Talent Search (1990-91 school year) *must be received prior to midnight, Monday, December 10, 1990*, at Science Service, 1719 N Street, N.W., Washington, DC 20036. This means the entry must either be postmarked by November 26, 1990 *OR* the entry must be sent by a delivery service which guarantees delivery by Monday, December 10, 1990. If an entry arrives late due to the fault of the carrier, but was postmarked by November 26, 1990 or sent via a delivery service which guaranteed in writing that the package would arrive by December 10, 1990, the entry will be accepted for judging provided that the judging process has not been completed.

WRITE OR CALL FOR MORE INFORMATION, OFFICIAL RULES AND ENTRY FORM

**WESTINGHOUSE SCIENCE TALENT SEARCH, c/o SCIENCE SERVICE, 1719 N STREET, N.W., WASHINGTON, DC 20036
(TELEPHONE: 202/785-2255)**