

Hwa is the recipient of the 1986 Apker Award

The 1986 Apker Award will be presented by APS President Val L. Fitch at the January 1987 APS-AAPT meeting in San Francisco to Terrence L. Hwa for "his accomplishments as an undergraduate student at Stanford University, including his study on the feasibility of determining the electroweak contribution to the muon's $g - 2$ anomaly."

The purpose of the Apker Award is to recognize outstanding achievement in physics by undergraduate students and thereby provide encouragement to young physicists who have demonstrated great potential for future scientific accomplishment. The award to Hwa consists of \$3000, an allowance for travel to the January meeting and a certificate.

Hwa, currently a graduate student studying biological physics at MIT, graduated from Stanford University in June 1986 with a BS in physics, biological sciences and electrical engineering. During most of his undergraduate career at Stanford he worked 20 hours a week in the Stanford research laboratories, at SLAC with his senior honors thesis adviser, Stanley Wojcicki, and at Intel Corporation.

Hwa's senior thesis, "Proposals to determine the electroweak contribution to the muon's anomaly," presented two proposals for experiments. The first was for a $g - 2$ experiment using the SLAC Linear Collider. The second would be for a fixed target experiment at Fermilab when the 1-TeV proton beam became available and would involve the measurement of the hadronic cross section needed for computation of the hadronic contribution to the anomaly. Hwa argued that his experiments could improve the precision of the measurement of the muon's gyromagnetic ratio g by more than a factor of 10. He will give a 30-minute talk on the subject at the San Francisco meeting.

The top candidates for the Apker Award were so outstanding this year that the selection committee, headed by Mildred S. Dresselhaus (MIT), chose five rather than the customary four



Apker Award finalists, from left to right, are Kenneth H. Hahn, Susan Marie Tholen, T. Ernest Glover and Toru Ohira.

Apker Award winner Terrence L. Hwa receives a finalist certificate from Mildred S. Dresselhaus (MIT), the head of the selection committee, at a ceremony in New York last September.



finalists. The other four finalists, their undergraduate and current institutions, and their research topics are as follows: T. Ernest Glover (Brown University, now at AT&T Bell Laboratories), quantum optics; Kenneth H. Hahn (Caltech, now at Stanford University), work contributing to the un-

derstanding of the production of elements through nuclear burning in stars; Toru Ohira (Hamilton College, now at Christ College, Cambridge University), quantum theory of measurement; and Susan Marie Tholen (University of Kansas, now at Cornell University), space plasma physics.

Publicity planned for Star Wars study

At its meeting in Baltimore on 2 November, the APS Council discussed a number of steps to involve the physics community in discussions of the Directed Energy Weapons Study Report. Contingent upon the release of the report (see *PHYSICS TODAY*, November, page 57), the council approved the following plan:

- Prompt communication of the executive summary and conclusions to all APS members
- Sale of prepublication copies of the full report by mail immediately after it

is released by the council

- Talks and other presentations by study group and review committee members at APS meetings, colloquia and other meetings of physicists

- Publication of the full report as a supplement in an issue of *Reviews of Modern Physics*.

For information on any aspect of the study release, consult the APS electronic newsletter *What's New* (now available on Pi-NET), or call or write to the APS office, 335 East 45th Street, New York NY 10017; (212) 682-7341. □