

OTHER EDUCATIONAL ACTIVITIES IN THE PHYSICS DIVISION

a. Enhancement of Minority Involvement in DOE Nuclear Physics Programs (B. Zeidman)

The ANL Physics Division, through its Minority Program, continues to attract highly qualified students who apply for participation in the programs of the Physics Division and other ANL divisions. The program is directed toward identification of physics departments with relatively strong programs and faculty interested in stimulating their students to pursue research, particularly in summer programs. Several returning, as well as new, minority physics majors participated in the ANL Summer Program during 2001. More than a dozen former participants are currently enrolled in programs leading to doctorates in physics. A Michigan State University student who spent several summers at ATLAS as an undergraduate received a Ph.D. in accelerator physics under J. Nolen's direction. Another former undergraduate student is currently performing his thesis research in the Physics Division and is

expected to receive a Ph.D. from Michigan this semester.

The program is an ongoing effort based upon personal interactions with a substantial number of qualified minority students and faculty. During visits to the Physics Departments of HBCU colleges (Historically Black Colleges and Universities) and other institutions with large minority populations, lectures are presented and there are discussions of activities in physics at ANL and other laboratories, graduate programs, etc. Other activities include attendance at meetings of minority organizations, appointment as Adjunct Professor at Hampton University including supervision of graduate thesis research, and serving on the Advisory Boards of the Centers of Excellence at both Hampton University and Morehouse College.

b. Nuclear Physics Award for Faculty in Undergraduate Institutions (B. Zeidman)

The goal of the 'Faculty Program', is to enhance undergraduate science education through faculty awards for minority and HBCU faculty that will allow them to directly participate in the ANL Physics Division research program and increase the number of undergraduates involved in research. A participant has obtained independent funding for continuing research collaboration with ANL that involves several undergraduate students. Several

minority faculty members and students have been involved in research collaboration with the Physics Division for the past few years and will return this year. In order to maximize the scope of the program, existing educational programs are being utilized to supplement support for some of the participants and more formal collaborative arrangements are being discussed.

c. Scientific Support of SciTech Museum Exhibits and Outreach Programs
(D. Henderson)

SciTech (Science and Technology Interactive Center) is a hands-on science museum located in Aurora, Illinois, near Argonne. With the help of volunteers and institutional support from Argonne, Fermilab, and several technological companies, SciTech has become an acknowledged leader in developing exhibits to teach modern science in a museum context.

D. Henderson of the Physics Division serves voluntarily as an exhibit developer on a regular basis. Several other staff members volunteer from time to time. The Physics Division collaborates with SciTech in developing exhibits for the museum and for use in Argonne's public educational activities. These efforts involve no significant programmatic costs.