

INTERNSHIPS AND OUTREACH

SPOTLIGHT ON NEW YORK CITY, 2002

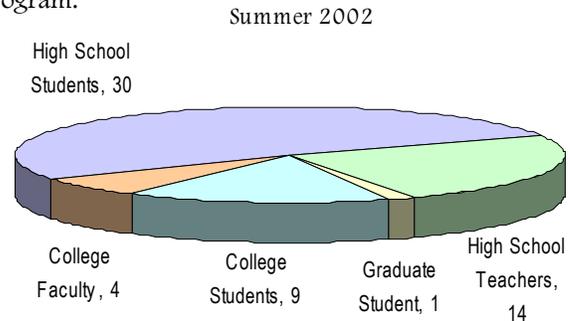


ICP is designed to have three levels of educational impacts. **Individual teachers and students** benefit from Summer Research Institutes. **Schools** benefit from science curriculum available at the Research Education web site and spin-off Summer Institutes. **Community outreach** occurs via research conferences, education workshops and community service.

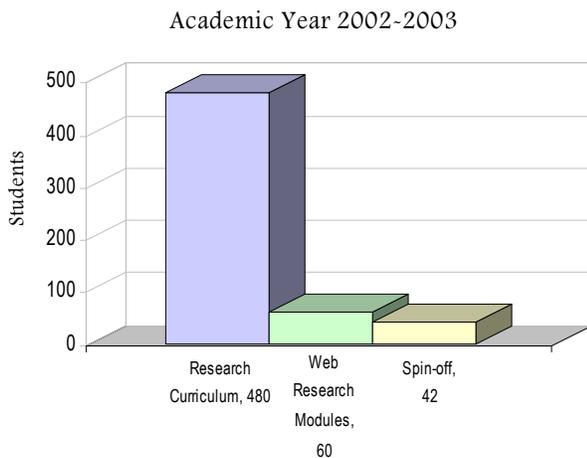
Summer Research Institute Internships.....

Students and teachers were competitively recruited for research internships (58) from 20 middle schools, high schools, and undergraduate institutions in the ICP School Network, as well as from other New York City metro area schools. Most students and teachers are from the high school level. Special attention is given to candidates' essays and interviews to recruit students who demonstrate a high level of interest and motivation in science research and teachers who have thought critically about authentic science teaching. Our focus is on opening research experiences to students of various academic achievement levels, with 41% having a GPA of B to B+, 31% having A to A+. It is also to sustain long-

term relationships with students and teachers, with 53% continuing in their research experiences for 2 or more years and 68% of the alumni tracked after they leave the program.



..... School-Based Research



The largest number of students (582) is involved in school-based research curriculum developed and taught by ICP teacher research interns. In 2002, ICP piloted a web-based research project called Urban Measurement of Aerosol and Asthma Project (UrbanMAAP) in Camden, New Jersey, Washington, DC, New York City and Filmore, California high schools. This pilot effort is a prototype for other web-based research projects concerning two ICP research topics: Clouds, Storms and Climate Change, and The Carbon Question. A small number of City University of New York (CUNY) colleges have developed research-based courses and projects as ICP spin-offs.

Research Conferences and Workshops.....

ICP holds two annual conferences for student and teacher research interns to present the findings of their academic year and summer projects, one in June and the other in August (total 325 participants). The summer conference in August is the larger of the two, where the typical guest attendance includes nearly 160 students, educators, scientists, government and industry representatives, museum education specialists, and journalists, as well as 100 research team presenters from GISS and CUNY. The spring conference in early June is a forum for ICP student intern researchers and students involved in school-based research projects to present their findings to their peers, teachers and GISS scientists.

