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INVENTORY OF EXISTING PROGRAMS

**Inner-City Energy and Environmental
Education Consortium**

in the cities of

Washington, DC, Baltimore, and Philadelphia

including programs of

Industry, Government & Not-for-Profit Organizations

Compiled by

**Weston Institute
One Weston Way
West Chester, PA 19380**

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FOREWORD

This is a "first effort" to prepare an inventory of existing educational programs, focused primarily on inner-city youth, in operation in Washington, D.C., Baltimore, and Philadelphia. The purpose of the inventory is to identify existing programs which could be augmented, adapted, or otherwise strengthened to help fulfil the mission of the Department of Energy-sponsored Inner-City Energy and Environmental Education Consortium, the mission of which is *to recruit and retain inner-city youth to pursue careers in energy-related scientific and technical areas and in environmental restoration and waste management*. The Consortium does not want to "reinvent the wheel" and all of its members need to learn what others are doing.

Each of the 30 participating academic institutions was invited to submit as many program descriptions as they wished. Due to the summer holidays, or because they did not believe that they were carrying out programs relevant to the mission of the Consortium, some institutions did not submit any program descriptions. In addition, several industries, governmental agencies, and not-for-profit institutions were invited to submit program descriptions.

Contents of this inventory is organized by city. Under each city's listing, programs are arranged by each participating institution, beginning with the public school district, followed by the diocesan schools, followed by the institutions of higher education listed in alphabetical order. Under each academic institution, programs are listed in alphabetical order.

We have tried to gather the vital information so that the reader can gain an understanding of what the program does, who is responsible for leading it, and who sponsors and pays for it. We have encouraged the directors of each program to submit the exact text they want used to describe their program. Where this has not been practical, the staff of the Weston Institute has extracted a description from available literature. Also, several existing directories of environmental education programs have been listed in the reference section of this inventory. We have tried to provide sufficient information for the reader to obtain his or her own copy.

This inventory is not exhaustive or complete. It is a working document and many important programs have no doubt been overlooked in this first edition. Readers are encouraged to bring to our attention (1) errors in these program descriptions, and, or (2) omissions of programs which ought to be listed in a second edition, or supplement. An inventory sheet is included in the back of this document and should be copied as necessary and used to send in new information for the next edition. *Information submitted on, or before, Friday 25 September 1992 will be included.*

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WASHINGTON, DC

**Public Schools, Archdiocesan Schools, Community
Colleges, Colleges, and Universities**

Washington

DISTRICT OF COLUMBIA PUBLIC SCHOOLS

Audubon Science Institute

The program provides teacher training and classroom materials to teach students practical ideas for implementing environmental education. It helps students to learn and make decisions about the future of the world and their role in conservation.

The Audubon National Training Site is located in Backus Junior High School.

Sponsoring Organization: National Audubon Society, D.C. Public Schools, Government and business groups and environmentalists

Program Director or Contact: Dr. Mary Johnson

Address: Backus Junior High School, South Dakota Avenue at Hamilton Street, NE, Washington, DC 20017

Telephone: (202) 576-6299

FAX: N/A

Grade Levels: 7 -10

Years in Operation: 3

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: approx. 20 schools involved

Estimated Number of Students Enrolled in Program Each Year: not sure

Number of Students Completing Program Each Year:

Chemical Education For Public Understanding Program (CEPUP)

This is a diverse educational program highlighting chemicals and their uses in the context of societal issues, so that students can experience the realities of science. Curriculum materials, kits of hands-on science supplies, and laboratory and field experiences are used to provide educational experiences focusing on chemicals and their interaction with people and the environment. Students collect and process scientific evidence and use it to make decisions that affect them personally and society as a whole.

Sponsoring Organization: D.C. Public Schools, Lawrence Hall of Science in Berkley, CA and The Shell Oil Company

Program Director or Contact: V. Susie Oliphant

Address: Science Office, 20th & Evarts Streets, NE, Washington, D.C. 20018

Telephone: (202) 576-7817/18

FAX: (202) 576-7941

Grade Levels: 7 and 8

Years in Operation: 1

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: 50 students in each of 28 junior high schools

Estimated Number of Students Enrolled in Program Each Year: 1400

Number of Students Completing Program Each Year: none this year

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Chemicals, Health, Environment and Me (CHEM)

This is a new program initiated during the spring of 1992. It is an environmental science program which contains hands-on materials and printed curriculum designed to enhance instruction for fifth and sixth graders. It supports the existing elementary curriculum and focuses on the interaction of chemicals with people and the environment; it relates science concepts involved to the students own lives. This is the precursor program for CEPUP at the secondary level.

Sponsoring Organization: D.C Public Schools, Lawrence Hall of Science

Program Director or Contact: Frances Brock

Address: Science Office, 20th & Evarts Streets, NE, Washington, DC 20018

Telephone: (202) 576-7818

FAX: (202) 576-7041

Grade Levels: 5 and 6

Years in Operation: 1/2 year

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: 720

Estimated Number of Students Enrolled in Program Each Year: 750

Number of Students Completing Program Each Year: not available at this time

Foundation raises the rest (approx. \$150,000) so that classes of students, along with their teachers, can go down the Potomac and Anacostic rivers on the foundation's boat to collect specimen, conduct tests and generally learn about life in the water and the pollution that exists.

The Foundation also offers staff development for teachers during the summers. They sponsor a course on the Potomac River and take teachers out on the Bay for several days for field experiences.

Sponsoring Organization: Chesapeake Bay Foundation, D.C. Public Schools and the Washington D.C. business community

Program Director or Contact:

Address:

Telephone:

FAX:

Grade Levels: 6 - 12

Years in Operation: 5

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: 1600

Estimated Number of Students Enrolled in Program Each Year: 1600

Number of Students Completing Program Each Year: 1600

Chesapeake Bay Program

This is a cooperative program between the Chesapeake Bay Foundation and the D.C. Public Schools. The school system puts up approximately \$30,000 and the Bay

District of Columbia Environmental Consortium

The Consortium is made up of representatives from all of the environmentally oriented organizations in the Metropolitan area. The list includes some CEOs and scientists and other

Washington

Schools providing staff development activities, mini-conferences, field trip activities, local school support and some materials.

Sponsoring Organization: Consortium
Member Organizations

Program Director or Contact: Dorothy Barton
or Julie Washburn

Address: Science Office, 20th & Evarts
Streets, NE, Washington, DC 20018

Telephone: (202) 576-7818

FAX: (202) 576-7041

Grade Levels: 6 - 12

Years in Operation: 2

Duration of Individual Programs: School year

Student Numbers in Each Typical Program:

Estimated Number of Students Enrolled in
Program Each Year:

Number of Students Completing Program Each
Year:

District of Columbia Head Start Program

The District of Columbia Public Schools Head Start Program is accordance with the policies and regulations of the Administration for Children and Families (ACF) and the mission of the District of Columbia Public Schools System provides comprehensive services for 1,576 children and families. Services result from the integration of the Administrative, Disabilities, Education and Family Services which includes Parent Involvement, Social Services, Health (Dental and Mental Health) components. Families receive direct services from program staff and indirect services through the support of a carefully cultivated network of community resources.

The infusion and collaboration of the Family Home Day Care Project, the Home Based Program, Evanstart, Parents As Teachers (PAT), Family Literacy Involvement Program (FLIP) and the Family Learning Center support the goals and mission of the DCPS Head Start Program. A developmentally appropriate education plan, the opportunity for parent participation and comprehensive training for parents and staff empowered children and families to succeed.

Sponsoring Organization: District of
Columbia Public Schools

Program Director or Contact: Beverly
Langford-Thomas

Address:

Telephone: (202) 767-8709

FAX: (202) 767-7186

Grade Levels: 3 and 4 year old

Years in Operation: 5

Duration of Individual Programs: 12 months

Student Numbers in Each Typical Program:

Estimated Number of Students Enrolled in
Program Each Year: 1,576

Number of Students Completing Program Each
Year: 798

D.C. Public Schools Nature Computer Camp

The Nature Computer Camp operates at Camp Round in the Catoctin Mountain Park in Thurmont Maryland. It is open to graduating sixth graders, who are bussed up on Monday morning and returned to the city on Friday afternoon. During the week of residential camp, students are exposed to three nature

Washington

trails, geology, stream ecology and woodland ecology. The students walk the trails, collect specimen that are studied through-out the week in the classes, and then returned to their natural habitat on Friday. The fourth component is computer literacy. Students use IBM computers to write basic programs that relate to the other program components.

Sponsoring Organization: D.C. Public Schools Science Office

Program Director or Contact: Dorothy Barton

Address: Division of Curriculum - Science Office, 20th & Evarts Streets, NE

Telephone: (202) 576-7817, 18

FAX: (202) 576-7041

Grade Levels: 6th

Years in Operation: 10

Duration of Individual Programs: summer - 5 weeks

Student Numbers in Each Typical Program: 100 students/wk for 5 weeks; 500/summer

Estimated Number of Students Enrolled in Program Each Year: 500

Number of Students Completing Program Each Year: 500

Energy Audit

The D.C. Energy Office pays the salary of a teacher to teach these students energy conservation practices and to coordinate field projects. After receiving instruction, the students go out into the community and make energy assessments in the home of senior citizens, primarily. They then design their projects and work in the of senior citizens, primarily. They then design their projects and

work in the homes of the citizens to carry out practices that will result in energy conservation. They do things like replace window panes, install weather stripping, etc.

Sponsoring Organization: D.C. Energy Office - Sharon Cooke

Program Director or Contact: Sharon Cooke

Address: D.C. Energy Office

Telephone: (202) 576-7817, 18

FAX: (202) 576-7041

Grade Levels: High School

Years in Operation: do not know

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: students in Coolidge High School

Estimated Number of Students Enrolled in Program Each Year: approx. 2 classes

Number of Students Completing Program Each Year:

Energy Patrol

Participating schools establish teams similar to the Safety Patrol. The patrol sets up energy conservation guidelines for each school. At the end of the school year, schools conserving the greatest amount of energy are recognized by the D.C. Energy Office. The school patrol teams work in conjunction with the Facilities Management Division of the school system.

Sponsoring Organization: D.C. Energy Office and D.C.P.S

Program Director or Contact: Alma Miller & Sharon Cooke, D.C. Energy

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Address: Division of Curriculum-Science
Office, 20th & Evarts Streets, NE

Telephone: (202) 576-7817, 18

FAX: (202) 576-7041

Grade Levels: Elementary and high school

Years in Operation:

Duration of Individual Programs: school year

Student Numbers in Each Typical Program: 70-
80 schools

Estimated Number of Students Enrolled in
Program Each Year: 8 to 10 students make up
the patrol, but they work with classes of
students

Number of Students Completing Program Each
Year:

Energy for the Nineties

This is an energy program that focuses on
energy education, and conservation. The
Washington Gas company provides \$50,000
each year to purchase hands-on energy kits and
training for participating teachers. The teachers
are also provided with printed text materials
and activity books for students.

The program enhances and supplements energy
instruction that is already a part of the
curriculum.

Sponsoring Organization: D.C. Energy Office,
Washington Gas Light Company and
Enterprise for Education in Denver, Colorado

Program Director or Contact: V. Susie
Oliphant

Address: Science Office, 20th & Evarts
Streets, NE

Telephone: (202) 576-7817, 18

FAX: (202) 576-7041

Grade Levels: 6, 8, and 9

Years in Operation: 1

Duration of Individual Programs: School year

Student Numbers in Each Typical Program:
2000 6th; 600 8th; 300 9th graders

Estimated Number of Students Enrolled in
Program Each Year: 2900

Number of Students Completing Program Each
Year: 2900

Energy Source

This is a comprehensive energy education
program that focuses on conservation practices.
The D.C. Energy Office provides the financial
support and the materials are purchased from
the Educational Development Program in
California. Teachers are provided with printed
materials, audio-visual materials and
instructional kits with manipulative for
classroom use. This program supplements the
regular curriculum.

Sponsoring Organization: D.C. Energy Office,
Educational Development Program in
Lakewood, CA and the D.C. Public Schools

Program Director or Contact: Alma Miller -
D.C. Science Office

Address: Division of Curriculum, Science
Office, 20th & Evarts Streets, NE

Telephone: (202) 576-7818

FAX: (202) 576-7041

Grade Levels: K, 2, 3 and 5

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Years in Operation: approx. 6

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: students in all 122 elementary schools
Estimated Number of Students Enrolled in Program Each Year: approx. 3000

Number of Students Completing Program Each Year: approx. 3000

Five-Year Plan-Environmental Restoration and Waste Management

Students designated as DCPS Potential National Merit Scholars are involved in a project that invited their comments and responses to the United States Department of Energy-ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT-FIVE YEAR PLAN. Students from five DCPS high schools visited the Department of Energy for briefings, took a field trip to Oakridge, Tennessee for a hands-on orientation to the Environmental Program, attended Saturday classes on the topic of waste management, and responded to the document. Their responses appear in A COMMENT RESPONSE DOCUMENT, published by The Department of Energy.

Sponsoring Organization: United States Department of Energy

Program Director or Contact: Dr. Eugene Williams, Sr., Director, Test Improvement Program

Address: Bryan Administration Unit, 1325 Independence Avenue, S.E., Washington, DC 20003

Telephone: (202) 727-2092

FAX: (202) 724-8780

Grade Levels: 11

Years in Operation: 2

Duration of Individual Programs: summer, fall

Student Numbers in Each Typical Program: 15

Estimated Number of Students Enrolled in Program Each Year: 15

Number of Students Completing Program Each Year: 15

Ft. Dupont Park Environmental Program

This is an outdoor classroom program co-sponsored by D.C.P.S. and the National Park Service. Fifth grade students engage in hands-on science experiences as they walk a woodland nature trail. The three cycle program brings students to the outdoor classroom in the fall and springs to compare seasonal differences in the woodland environment. They also visit the Nature Discovery Room in the winter for an indoor nature experience.

Plans are underway by the National Park Service to replicate this program at the Kenilworth Gardens.

Sponsoring Organization: D.C. Public Schools and National Park Service

Program Director or Contact: Gloria Tucker

Address: Beers Model Elementary Science Program, Beers Elementary School, Alabama Avenue

Telephone: (202) 767-8666

FAX:

Grade Levels: K - 6

Years in Operation: 3

Washington

Duration of Individual Programs: School year

Student Numbers in Each Typical Program:
5th graders in elementary school

Estimated Number of Students Enrolled in
Program Each Year: approx. 2 000

Number of Students Completing Program Each
Year:

Metropolitan Consortium for Minorities in Engineering (METCON)

METCON is an organization made up of scientists, engineers and administrative personnel from federal agencies and private industry. The purpose of the organization is to motivate pre-college students to pursue careers in mathematics, science and engineering. The program operates in junior and senior high schools. The junior high program brings scientists into the schools to make presentations that raise the awareness level of students about the different types of engineering careers. In senior high schools students participate in METCON Clubs. The organization provides seed money to the METCON clubs to support students projects and activities. The organization also co-sponsors, along with DOE and NOAA, summer internships for students in NOAA and HIST laboratories.

Sponsoring Organization: A consortium of engineers and scientists from public and private sector organizations in the D.C. Metropolitan area.

Program Director or Contact: Dianne Graham,
Howard University

Address: School of Engineering, 2300 Sixth
Street, NW, Washington, DC 20059

Telephone: (202) 806-6627

FAX:

Grade Levels: 7 -12

Years in Operation: 11

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: 25
to 30 in each school

Estimated Number of Students Enrolled in
Program Each Year: 600

Number of Students Completing Program Each
Year: 600

National Education Energy Day (N.E.E.D.)

This is an energy program designed to make students aware of energy concepts, policies and practices. This is accomplished through cooperative activities. Teachers and students are trained simultaneously by Mr. Katz. Demonstrations and printed activities are used in the training.

Sponsoring Organization: The National Energy
Education Day

Program Director or Contact: Alma Miller-
D.C.P.S. and Gerry Katz-NEED

Address: Division of Curriculum, Science
Office, 20th & Evarts Streets, NE

Telephone: (202) 576-7817, 18

FAX: (202) 576-7041

Grade Levels: K - 12

Years in Operation: 6

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: 35-
40 schools

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Estimated Number of Students Enrolled in Program Each Year: approx. 1,000

Number of Students Completing Program Each Year: approx. 1,000

PEPCO (Potomac Electric and Power Company) Program

PEPCO is the local power company for Washington, D.C. and is very involved with schools regarding instruction in electricity and energy conservation. The community affairs representative visits each elementary school providing assistance and support to the classroom teachers relating to electricity in the curriculum, as well as arranging field trips to local power plants. Materials are provided which include curriculum and student activities and hands-on science materials that involve students in electricity activities and problem solving.

Sponsoring Organization: Potomac Electric and Power Company

Program Director or Contact: Juliette Smith

Address: 1900 Pennsylvania Avenue, NW, Washington, DC 20068

Telephone: (202) 872-2975

FAX: (202) 331-6484

Grade Levels: K - 8

Years in Operation: 10

Duration of Individual Programs: School Year

Student Numbers in Each Typical Program: approx. 40-50 in each elementary school

Estimated Number of Students Enrolled in Program Each Year: 5000

Number of Students Completing Program Each Year: 5000

Potential National Merit Scholars Program

The Potential National Merit Scholars Program is designed to improve the performance of students on the Preliminary Scholastic Aptitude Test (PSAT) and to increase the number of Merit, Achievement, and Hispanic Scholars in the D.C. School System. Students attend the summer enrichment program for six weeks during the summer and six weeks during the Fall. They study honors literature, vocabulary development, critical thinking and problem solving, honors algebra, geometry, and arithmetic in preparation for the PSAT during the summer and review subject matter content and test taking strategies during the Fall.

Sponsoring Organization: DCPS

Program Director or Contact: Dr. Eugene Williams, Sr., Director, Test Improvement Program

Address: Bryan Adm. Unit, 1325 Independence Avenue, S.E., Washington, DC 20003

Telephone: (202) 727-2092

FAX: (202) 724-8780

Grade Levels: 11

Years in Operation: 4

Duration of Individual Programs: Summer

Student Numbers in Each Typical Program: 50

Estimated Number of Students Enrolled in Program Each Year: 50

Number of Students Completing Program Each Year: 40-50

Washington

Year: 40-50

Project SOAR (SAVE OUR ANACOSTIA RIVER)

Students at Anacostia High School engage in investigations that address problems and issues related to the Anacostia River and the neighborhoods in which they live. EPA has funded a \$30,000 proposal to support this project. Students have assisted with planting more than 500 trees in the Anacostia community and Kenilworth Park. With assistance from the Department of Public Works, SOAR students initiated a school wide recycling project. Other activities include volunteering to help reforest an area at Watts Branch.

Sponsoring Organization: EPA, Dept. of Public Works, and D.C. Public Schools at Anacostia High School

Program Director or Contact: Zenobia Willis, Principal, Anacostia High School

Address:

Telephone: (202) 767-7040

FAX: N/A

Grade Levels: 9 - 12

Years in Operation: 2

Duration of Individual Programs: School year

Student Numbers in Each Typical Program:

Estimated Number of Students Enrolled in Program Each Year:

Number of Students Completing Program Each Year:

Superintendent's Junior Scholars Program

The Superintendent's Junior Scholars Program assists academically talented ninth and tenth graders to become Potential National Merit Scholars (PNMS). By attending the program for two summers, they improve their chances of becoming semifinalist in the National Merit Scholarship Program.

Sponsoring Organization: DCPS

Program Director or Contact: Dr. Eugene Williams, Sr., Director, Test Improvement Program

Address: Bryan Adm. Unit, 1325 Independence Avenue, S.E. Washington, DC 20003

Telephone: (202) 727-2092

FAX: (202) 724-8780

Grade Levels: 9 - 10

Years in Operation: 3

Duration of Individual Programs: Summer

Student Numbers in Each Typical Program: 50

Estimated Number of Students Enrolled in Program Each Year: 50

Number of Students Completing Program Each Year: 50

Thomas L. Ayers Program

This program involves students in an environmental program that includes beautification projects at the local school and in the community. The program provides seed money, plants and expertise for teachers and students. Schools keep scrapbooks of the before and after conditions of the identified

Washington

areas; they also have a picture story of the on-going work to develop the area. These are submitted at the end of the school year and schools with the best pictorial account are recognized.

Sponsoring Organization: The Soil and Water Society of America and The D.C. Public Schools

Program Director or Contact: Alma Miller

Address: Division of Curriculum, Science Office 20th & Evarts Streets, NE

Telephone: (202) 576-7817, 18

FAX: (202) 576-7041

Grade Levels: 3 - 12

Years in Operation: 15

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: not available

Estimated Number of Students Enrolled in Program Each Year:

Number of Students Completing Program Each Year:

Educational Programs and Operations Curriculum and Instruction Branch -- D.C. Public Schools

Program Director or Contact: Barbara Clark

Address: 415 12th Street, N.W., Room 805, Washington, DC 20004

Telephone: (202) 724-4099

FAX: (202) 727-2983

Grade Levels: 9 - 12

Years in Operation: 2 months

Duration of Individual Programs: Year round

Student Numbers in Each Typical Program: 10 sites -- 3,600 students

Estimated Number of Students Enrolled in Program Each Year: Increasing each year to eventually involve the entire student body

Number of Students Completing Program Each Year:

Ventures in Education

This program is one of the nation's most ambitious programs assisting minority high school students to prepare successfully for college or the work force. Venture will place special emphasis on mathematics and science in addition to the major high school subjects. The plan calls for new teaching approaches, a revised curriculum, teacher development, expanded facilities for counseling students and advanced courses in some subjects.

Sponsoring Organization: Office of

Washington

ARCHDIOCES OF WASHINGTON

National Youth Sports Program: NYSP

N.Y.S.P. is a free sports-training and enrichment program for youth ages 10-16. Enrollment is open to all youngsters in the community whose parent(s) meet Department of Health and Human Services income guidelines. In addition to sports training and enrichment activities youth receive: Free medical examinations, daily USDA approved meals, free T-shirt, transportation (when necessary), accident-medical insurance coverage and interaction with college student-athletes and staff. Youth practice standard sports or learn new ones. College, elementary and high school coaches and instructors provide activities in swimming, basketball, soccer, badminton, gymnastics and wrestling. Community leaders bring information to youth on alcohol and other drug abuse prevention, nutrition and personal health career opportunities and job responsibilities, higher education and community concerns. Hands-on Math/Science sessions are offered on Saturday mornings.

Sponsoring Organization: University of the District of Columbia

Program Director or Contact: Lucille Hester

Address: 4200 Connecticut Avenue, N.W., Washington, D.C. 20008

Telephone: (202) 282-2163

FAX: N/A

Grade Levels: 5 - 12

Years in Operation: 24

Duration of Individual Programs: 28

Weekends - Saturday only; 5 Weeks-Summer-M-Thus

Student Numbers in Each Typical Program: 30-50

Estimated Number of Students Enrolled Program Each Year: 300-500

Number of Students Completing Program Each Year: All

Pre-College Program

The College of Arts and Sciences Center for Preprofessional Education program offers a four week course of study in Reading, Mathematics, and Science. Students are grouped into three classifications: Junior High students, Senior High students and teachers. Students study Reading, Math, Biology, Chemistry and Physics. Teachers are provided an opportunity to participate in classes on teaching Scientific Methodology, Biology, and Molecular Biology. The program is in operation daily. Breakfast, lunch and dinner are provided by the program on the campus. Classes are taught by department heads and professors at the university in the areas of Biology, Chemistry, and Physics. Students have access to the facilities located on Howard's campus.

Sponsoring Organization: College of Arts and Sciences, Howard University, Center for Pre-professional Education

Program Director or Contact: Georgians Aboko-Cole, Ph.D.

Address: P.O. Box 473, Washington, D.C. 20059

Telephone: (202) 806-7231

FAX: N/A

Grade Levels: 7 - 12

Washington

Years in Operation: 3

Duration of Individual Programs: 4 wks. -
Summer - M-F

Student Numbers in Each Typical Program: 50

Estimated Number of Students Enrolled
Program Each Year: 150

Number of Students Completing Program Each
Year: All

Washington

THE AMERICAN UNIVERSITY

Estimated Number of Students Enrolled in
Program Each Year: NI

Number of Students Completing Program
Each Year: NI

Bachelor of Arts in Environmental Studies

This interdisciplinary program is designed to provide college students with a fundamental understanding of the scientific and social processes that shape our environment. Graduates from the program will be prepared for employment in natural resource fields dealing with basic and applied scientific interests, management in professional programs in law, health and medicine, or business.

The major has two tracks. The Environmental Science track stresses the natural sciences, and the Environmental policy track emphasizes the social sciences. Each track consists of a core curriculum and a set of electives totalling 69 credit-hours.

Sponsoring Organization: The American University, College of Arts & Sciences

Program Director or Contact: Dr. David Culver, Chair, Department of Biology

Address: Department of Biology, Hurst Hall
The American University, 4400 Mass. Avenue
N.W., Washington, D.C. 20016

Telephone: (202) 885-2194

FAX: N.A.

Grade Levels: College/Under. Grad.

Years in Operation: New

Duration of Individual Programs: College
major: NI

Student Numbers in Each Typical Program: NI

The International & Environment & Development Semester

This program combines hands-on field experiences on two continents. This semester focuses upon global environmental preservation and sustainable development. Twelve weeks are spent studying the policy-making process in Washington and the three weeks are spent in either Kenya or Costa Rica to investigate the implementation of these policies in the field. This semester long program includes a two course seminar, a practicum and an internship.

Sponsoring Organization: The American University

Program Director: Dean David Brown

Address: Washington Semester
The American University
4400 Mass. Avenue N.W.
Washington, D.C. 20016

Telephone: (202) 895-4909

FAX: (202) 895-4960

Grade Levels: Undergraduate

Years in operation: New

Duration of Individual Programs: 1 Semester

Washington

Student Numbers in Each Typical Program: 25

**Estimated Number of Students Enrolled in
Program Each Year: 50**

**Number of Students Completing Program Each
Year: 50**

Washington

THE CATHOLIC UNIVERSITY OF AMERICA

Engineering 2000

One week residential program which presents engineering of the 21st Century as seen by outstanding practitioners of today. The format includes a daily plenary lecture, of an exceptionally innovative and creative activity area in engineering and several (12) laboratory projects. Each attendee is involved in two projects.

Sponsoring Organization: The Catholic University of America

Program Director or Contact: John J. McCoy, Dean

Address: The Catholic University of America, School of Engineering, Rm. 102, Pangborn Hall, Washington, D.C. 20064

Telephone: (202) 319-5160

FAX: (202) 319-4499

Grade Levels: 11

Years in Operation: 4

Duration of Individual Program(s) 6 days
Sunday-Friday

Student Numbers in Each Typical Program:
150

Estimated Number of Students Enrolled in
Program Each Year: 150

Number of Students Completing Program Each
Year: 150

Experience Engineering

Three-week, day program which uses engineering as a motivation for study of mathematics and science. The program makes extensive use of undergraduate engineering students as teaching assistants, in a program which emphasizes engineering laboratory experience in teaching and research laboratories.

Sponsoring Organization: The Catholic University of America

Program Director or Contact: John J. McCoy -
Dean

Address: The Catholic University of America, School of Engineering, Rom 102, Pangborn Hall, Washington, D.C. 20064

Telephone: (202) 319-5160

FAX: (202) 319-4499

Grade Levels: 11-12

Years in Operation: 2

Duration of Individual Programs: 3 weeks

Student Numbers in Each Typical Program: 15

Estimated Number of Students Enrolled in
Program Each Year: 15

Number of Students Completing Program Each
Year: 15

Washington

GEORGE WASHINGTON UNIVERSITY

Saturday Seminars on Engineering and Applied Science

Lectures, laboratory demonstrations, exposure to many areas of engineering, applied science, and computer science are available to students who wish to improve their computer skills. Students also get the chance to discuss ideas for science projects with mentors.

Sponsoring Organization: GWU School of Engineering & Applied Science

Program Director or Contact: Peter Keiller

Address: 801 22nd Street, NW, Room T-607, Washington DC 20052

Telephone: (202) 994-7447

FAX: N/A

Grade Levels: 10 - 12

Years in Operation: 3

Duration of Individual Programs: Throughout fall & spring semesters

Student Numbers in Each Typical Program: 100

Estimated Number of Students Enrolled Program Each Year: 100

Number of Students Completing Program Each Year: 100

Science and Engineering Apprenticeship Program

Paid apprenticeships are available to high school students who are interested in math and engineering. Students are assigned to scientists or engineers from a Department of Defense Laboratory in the National Capital Area. The program provides information and experience to pre-college students to try to influence them toward careers in science and engineering. Students are selected on the basis of grades, science and mathematics courses taken, scores on national standardized tests, student's personal interest, and teacher recommendations.

Sponsoring Organization: GWU School of Engineering & Applied Science, DoD, and the Office of Naval Research

Program Director or Contact: Marilyn Krupsaw

Address: 707 22nd Street, NW, Room 102, Washington, DC 20052

Telephone: (202) 994-2234

FAX: N/A

Grade Levels: 10 - 12

Years in Operation: 5

Duration of Individual Programs: 8 weeks in summer

Student Numbers in Each Typical Program: 609 students

Estimated Number of Students Enrolled Program Each Year: 700

Number of Students Completing Program Each Year: 609

Washington

Science and Engineering Initiative for Young Minority Women

Number of Students Completing Program Each
Year: 60

The Pre-college Science and Engineering Initiative for Young Minority Women is designed to interest minority women in future careers in science. Participants join in a personal development program to prepare them to work on software engineering teams comprised of four students and one teacher mentor. Teams meet regularly on scheduled Saturdays during the school year and during a 10 day residential summer program.

Participants must be minority women. High school courses, student essays, and teacher recommendations are used to select participants.

Sponsoring Organization: GWU School of Engineering and Applied Science, National Science Foundation, N.I.H., Booz-Allen, Smithsonian, National Demonstration Lab & NASA.

Program Director or Contact: Rachelle Heller
or Diane Martin

Address: 801 22nd Street, NW, Room T-607A, Washington, DC 20052

Telephone: (202) 994-8238 D. Martin
(202) 994-5906 R. Heller

FAX: N/A

Grade Levels: 9 & 10

Years in Operation: 2

Duration of Individual Programs: weekend
during school year and 10 days during summer

Student Numbers in Each Typical Program: 60

Estimated Number of Students Enrolled

Program Each Year: 60

Washington

HOWARD UNIVERSITY

Number of Students Completing Program Each Year:

METCON Engineering Science

METCON (District of Columbia Metropolitan Consortium for Minorities in Engineering) is an organization which serves as a network for the delivery of technical information and technology-oriented resources to junior and senior public schools. Currently there are eight junior high and eleven high schools in the network. During the academic year, each school maintains a METCON Club which organizes events. In September 1992, proposals related to environmental issues will be accepted for projects the Club would like conduct during the 1992-93 academic year. It is anticipated that three proposals will be funded. Primarily and off-campus program at Engineering/Science Facilities, METCON provides students with technical work experience. Students receive exposure to the day-to-day experiences of scientists and engineers.

Sponsoring Organization: Howard University

Program Director or Contact: LaWanda Peace

Address: School of Engineering, Howard University, Washington, DC 20059

Telephone: (202) 806-6627

FAX: (202) 806-5960

Grade Levels: 11 & 12

Years in Operation:

Duration of Individual Program:

Student Numbers in Each Typical Program:

Estimated Numbers of Students Enrolled in Program Each Year:

PREFACE

Activities for participants of the PREFACE program will include a lecture on environmental ethics, a tour of the Blue Plains Wastewater Treatment Facility and several student projects as an introduction to environmental engineering. By the end of the program, it is expected that participants will have acquired:

1. awareness of the requirements and rewards of the engineering profession;
2. a level of personal growth and maturity that will facilitate a smooth transition to college life;
3. a working knowledge of campus resources; and
4. proficiency to earn above-average grades during their freshman year.

Additional lectures will be provided to the PREFACE participants during the Fall 1992 semester.

Sponsoring Organization: Howard University

Program Director or Contact: Carmen Cannon

Address: School of Engineering, Howard University, Washington, DC 20059

Telephone: (202) 806-6638

FAX: (202) 806-5960

Grade Levels: Freshmen-Undergraduate

Years in Operation: 18

Duration of Individual Program: Semester

Student Numbers in Each Typical Program: 18 - 22

Estimated Numbers of Students Enrolled in Program Each Year: 18

Washington

Number of Students Completing Program Each
Year: 18/400 total since inception

Science and Engineering Summer Academy for Teachers

The program will support and enrich science teaching in middle and junior high schools so that educators become more knowledgeable and resourceful in teaching minority youth principles and applications of science, engineering and technology. A presentation on environmental issues is planned for the Science and Engineering Summer Academy for Teachers. The presentation will include a discussion on global environmental problems and careers in the environmental management industry. Teachers will be asked to develop a teaching module based upon the lecture and references provided.

Sponsoring Organization: Howard University

Program Director or Contact: Melvin
Thompson

Address: School of Engineering, Howard
University, Washington, DC 20059

Telephone: (202) 806-5077

FAX: (202) 806-5960

Grade Levels: Middle School Teachers

Years in Operation: 2

Duration of Individual Program:

Student Numbers in Each Typical Program: 50

Estimated Numbers of Students Enrolled in
Program Each Year: 50

Number of Students Completing Program Each
Year: 50/100 to date

Upward Bound Math & Science

This program exposes students to various aspects of science and engineering. Participating students will be asked to select projects that they will complete during the six week program. Lecture material and several projects addressing environmental issues such as hazardous waste management, treatment and disposal, global warming, and acid rain will be given.

Sponsoring Organization: Howard University

Program Director or Contact: Joseph Bell

Address: School of Engineering, Howard
University, Washington, DC 20059

Telephone: (202) 806-5702

FAX: (202) 806-5960

Grade Levels: 11 & 12

Years in Operation: 2

Duration of Individual Program: 6 weeks

Student Numbers in Each Typical Program: 50

Estimated Numbers of Students Enrolled in
Program Each Year: 50

Number of Students Completing Program Each
Year: 50/100 to date

MONTGOMERY COLLEGE - TAKOMA PARK

Science Learning Center

This unit is designed to assist students, enhance their science learning skills, and provide supportive services that include workshops/seminars in note taking; test-taking; laboratory report writing; time-management; computerized assisted instruction; group study; and tutorials. We also offer summer workshops for elementary and secondary school science teachers with priority given to teachers from schools with a high minority student enrollment.

Sponsoring Organization: Montgomery College-Takoma Park

Program Director or Contact: Dr. Clarence A. Porter, Dean

Address: 7600 Takoma Avenue - Takoma Park, MD 20912

Telephone: (301) 650-1408

FAX: (301) 650-1317

Grade Levels: Post Secondary

Years in Operation: 6

Duration of Individual Programs: Semester

Student Numbers in Each Typical Program:
650

Estimated Number of Students Enrolled in
Program Each Year: 1,200

Number of Students Completing Program Each
Year:

Washington

UNIVERSITY OF THE DISTRICT OF COLUMBIA

Allied Health Careers Opportunity Program

This program is an enrichment program designed for Allied Health Students. Areas of concentration: in study, note-taking and test-taking skills, time management, and academic enhancement of chemistry, English, mathematics, and anatomy & physiology.

Sponsoring Organization: U.S. Department of Health/Human Services/ University of the District of Columbia

Program Director or Contact: Dr. Joan Williams-Thomas/Mr. Eugene Wiggins

Address: University of the District of Columbia, 4200 Connecticut Ave., NW, Bldg. 44, Washington, D.C. 20008

Telephone: (202) 282-7733/727-2608

FAX: (202) 282-3675

Grade Level(s): 12-college

Years in Operation: 7

Duration of Individual Program: summer & academic year until graduation

Student Numbers in Each Typical Program: summer: 12; AY: 40

Estimated Number of Students Enrolled in Program Each year: 50

Number of Students Completing Program Each Year: 20 graduating

Project Computer Applications in Mathematics, Problem Solving and Science (Project CAMPS)

Project CAMPS is a four-week summer mathematics and science based computer camp for sixth through eighth graders. The project introduces academically accelerated students to the concepts, methods and procedures of science; increases understanding of the role of mathematics in science; increases computer programming and application skills; and enhances understanding of the ethical and social issues in science and technology

Sponsoring Organization: University of the District of Columbia

Program Director or Contact: Grace E. Mack

Address: Office for Pre-College Programs, University of the District of Columbia, 4200 Connecticut Avenue, N.W., Bldg. 48, Rm. 4500, Washington, D.C. 20008

Telephone: (202) 282-2115

FAX: (202) 282-3409

Grade Level(s) 6-8

Years in Operation: 6

Duration of Individual Program(s): 50

Estimated Number of Students Enrolled in Program Each Year: 50

Number of Students Completing Program Each Year: 50

Washington

Project Youth in Engineering and Science (YES)

YES offers academic enrichment in mathematics, problem solving mathematics, problem solving, computer science, and pre-engineering studies to academically talented junior and senior high school students. The major goal of project YES is to increase the academic preparation of minority students entering undergraduate study in engineering, science, mathematics and computer science. Project YES is offered sixteen Saturdays during the academic year.

Sponsoring Organization: University of District of Columbia

Program Director or Contact: Grace D. Mack

Address Office of Pre-College Programs
University of the District of Columbia, 4200
Connecticut Avenue, N.W., Bldg. 48, Rm.
4500

Telephone: (202) 282-2115

FAX: (202) 282-3409

Grade Level(s): 6-9

Years in Operation: 11

Duration of Individual Programs: 16

Students Numbers in Each Program: 150

Estimated Number of Students Enrolled in
Program Each Year: 150

Number of Students Completing Program Each
Year: 145

Saturday Academy for the Marine Science

The program is designed for junior and senior minority high school students, to build student awareness of and familiarity with scientific concepts in informal and activity-oriented educational environments: build upon the "romance" of science.

Sponsoring Organization: National Oceanic
and Atmospheric Administration (NOAA)

Program Director or Contact: Dr. A. Jose'
Jones

Address: University of the District of
Columbia, Office for Pre-College Programs
4200 Connecticut Avenue, N.W., Bldg. 48,
Rm. 4500, Washington, D.C. 20008

Telephone: (202) 282-7370

FAX: (202) 282-7035

Grade Level(s) 7-12

Years in Operation: 3

Duration of Individual Programs: two
semesters

Student Number in typical Program: 50-80

Estimated Number of Students Enrolled in
Program Each Year: 40

Number of Students Completing Program Each
Year: 25

BALTIMORE, MARYLAND

**Public Schools, Archdiocesan Schools, Community
Colleges, Colleges, and Universities**

Baltimore

BALTIMORE CITY COMMUNITY COLLEGE

Estimated Number of Students Enrolled in
Program Each Year: 75

Number of Students Completing Program Each
Year: 75

Elementary Scientist Program

The Elementary Scientist Program is sponsored by the Baltimore City Community College Life Sciences Institute. It is a partnership that was developed with 75 Robert W. Coleman Elementary School students and BCCC faculty involved in Science, Math and Engineering on a college campus.

Hands-on-experience in Environmental Studies have included the lead contents in the soil around Jones Falls Expressway, studying the environment of the meal worm, how to use the microscope, hazardous chemicals in our homes and many more topics.

Each student experiences individual learning support provided by BCCC student mentors, faculty and staff.

Sponsoring Organization: Baltimore City Community College Life Sciences Institute

Program Director or Contact: Michelle Harris-Bondima

Address: Baltimore City Community College,
2901 Liberty Heights Avenue, Baltimore, MD
21215

Telephone: (410) 333-5921 or 5966

FAX: (410) 333-5053

Grade Levels: 3 - 5

Years in Operation: 1

Duration of Individual Programs: Fall - Spring
(6 Fridays)

Student Numbers in Each Typical Program: 50

Baltimore

COPPIN STATE COLLEGE

Dunbar "RAP" Program

Coppin State College, Morgan State University and Johns Hopkins University collaboratively provide training in the areas of science and mathematics to Baltimore City School students in the middle and high school grades. The emphasis is on technology, environmental protection and conservation of energy.

Sponsoring Organization: Baltimore City Schools, Nabisco Foundation

Program Director or Contact: Dr. Warren Haymen

Address: 34th and Charles Street, Baltimore, MD 21218

Telephone: (410) 516-8273

FAX:

Grade Levels: 6 - 12

Years in Operation: 2

Duration of Individual Programs: Semester (year long)

Student Numbers in Each Typical Program: 150

Estimated Number of Students Enrolled in Program Each Year: 150

Number of Students Completing Program Each Year: N/A

This program is offered on the campus of Coppin State College and is open to students grades 4 thru 9 throughout the state of Maryland. Approximately half of the population comes from Baltimore City.

The primary purpose is to help students improve their abilities to understand and apply both critical and creative thinking skills and strategies. Heavy emphasis is placed on mathematical and scientific concepts.

Sponsoring Organization: Coppin State College

Program Director or Contact: Dr. Toni Worsham

Address: 2500 W. North Avenue, Baltimore, MD 21216

Telephone: (410) 383-5573

FAX:

Grade Levels: 4 - 9

Years in Operation: 4

Duration of Individual Programs: Weekends

Student Numbers in Each Typical Program: 75

Estimated Number of Students Enrolled in Program Each Year: 75

Number of Students Completing Program Each Year: N/A

Maryland Center for Thinking Studies

Baltimore

JOHNS HOPKINS UNIVERSITY

Baltimore City Community Outreach/Special Program Project

The Community Outreach Project is committed to identifying academically able minority and low income youth attending Baltimore City and District of Columbia public schools. The project provides young people with rigorous and challenging academic course work in mathematics and language making it possible for them to take the Scholastic Aptitude Test or SAT at no charge.

Sponsoring Organization: The John Hopkins University, Center for Talented Youth (CTY)

Program Director or Contact: Wendy Ginsburg, Director of Development

Address: John Hopkins University, Center for Talented Youth, 3400 Charles Street, Baltimore, MD 21218

Telephone: (410) 516-0337

FAX: (410) 516-0804

Grade Levels: 7, 8, 9

Years in Operation: 2

Duration of Individual Program(s): semester & summer

Student Numbers in Each Typical Program: 48

Estimated Number of Students Enrolled in Program Each Year: 90

Number of Students Completing Program Each Year: 90

The New York Community Outreach Project

The New York Community Outreach Project is focused primarily in District 22 in Brooklyn, New York. Students there are identified through CTY's Talent Search identification procedures to take the SAT and participate in CTY program offerings. As an outgrowth, math teachers from District 22 are training to adapt the CTY model of instruction to the classroom setting.

Sponsoring Organization: The Johns Hopkins University Center for Talented Youth (CTY)

Program Director of Contact: Wendy D. Ginsburg, Director of Development

Address: The Johns Hopkins University, Center for Talented Youth (CTY), 3400 N. Charles Street, Baltimore, MD 21218

Telephone: (410) 516-0337

FAX: (410) 516-0804

Grade Levels: 5, 6, and 7th

Years in Operation: 2

Duration of Individual Program: annual

Student Numbers in Each Typical Program: 700

Number of Students Completing Program Each Year: several hundred

Pasadena Unified School District Skills Reinforcement Program

The Skills Reinforcement Program (SRP) was conceived to further enhance the efforts of CTY in recognizing youngsters with exceptional abilities. The SRP was designed to assist in

Baltimore

the identification and education of talented sixth, seventh and eighth graders who because of economic, educational, cultural or other factors, are not currently operating at optimal levels in terms of academic achievement and performance on standardized tests. The Pasadena SRP Program seeks to reinforce skills in Language Arts, and Math.

Sponsoring Organization: Johns Hopkins University, Center for Talented Youth

Program Director or Contact: John Porter

Address: PUSD, 351 S. Hudson, Pasadena, CA 91109

Telephone: (818) 795-6981

FAX: (818) 795-5309

Grade Levels: 6 - 8

Years in Operation: 1

Duration of Individual Program(s): 20 Saturdays, 2 Weeks Residential

Students Numbers in Each Typical Program:

Estimated Number of Students Enrolled in Program Each Year: 60

Number of Students Completing Program Each Year: 60

Polytechnic Skills Reinforcement Program

The Skills Reinforcement Program (SRP) was conceived to further enhance the efforts of CTY in recognizing youngsters with exceptional abilities. The SRP was designed to assist in the identification and education of talented third, fourth and fifth graders who, because of economic, educational, cultural or other factors, are not currently operating at optimal

levels in terms of academic achievement and performance on standardized tests. The poly SRP Program seeks to reinforce skills in Science, Language Arts, and Math.

Sponsoring Organization: Johns Hopkins University, Center for Talented Youth

Program Director or contact: Carmie Rodriguez

Address: 1010 E. California Blvd., Pasadena, CA 91106

Telephone: (818) 792-2147

FAX: (818) 796-2249

Grade Levels: 3 - 5

Years in Operation: 4

Duration of Individual Program(s) 4 week summer commuter

Student Numbers in Each Typical Program:

Estimated Number of Students Enrolled in Program Each Year: 60

Number of Students Completing Program Each Year: 60

Skills Reinforcement Project

The Yonkers Public Schools' Skills Reinforcement Program (SRP) address the academic needs of disadvantaged potentially gifted and identified gifted students. The strength of the program rests on the research-based curriculum and teaching methodology developed at The Johns Hopkins University Center for Talented Youth (CTY). The program interfaces with the university-supported collaborations for promising high school students who are disadvantaged.

Sponsoring Organization: John Hopkins University, Center for Talented Youth

Baltimore

Program Director or Contact: Gladys Pack

Address: Administrative Annex, Burroughs Jr.
High School, 150 Rockland Ave., Yonkers,
NY 10705

Telephone: (914) 976-8213

FAX: (914) 423-0518

Grade Levels: 6, 7, 8

Years in Operations: 3

Duration of Individual Program(s): Weekends -
schools year and 2 week summer program

Student Numbers in Each Typical Program: 90

Estimated Number of Students Enrolled in
Program Each Year: 90

Number of Students Completing Program Each
year: 30

Baltimore

MORGAN STATE UNIVERSITY

Academic Champions of Excellence (ACE) Program

The ACADEMIC CHAMPIONS OF EXCELLENCE (ACE) Program is a structured year-round and multi-year effort which offers rigorous instruction/activities in mathematics and science. It is a partnership between Baltimore City Public and Prince George's County businesses, community organizations, teachers, students, parents, and college/universities.

The Program ensures that ACE students, upon graduation, have the necessary course requirements and GPA to be able to enter AND graduate from the college/university of their choice. ACE assists participating students (grades 6-12) by offering intensive academic enrichment studies.

ACE is involved with 10 Baltimore City Schools (7 middle and 3 high schools). Currently, over 300 students participate in the Baltimore City schools and approximately 200 students are participating in the Prince George's County schools.

Sponsoring Organization: (SEUS)
MHEC/Carnegie

Program Director or Contact: Dr. C. Edith Booker

Address: Morgan State University, Jenkins Building, Room 328

Telephone: (410) 319-3207 or 3251

FAX:

Grade Levels: 6 -12

Years in Operation: 3

Duration of Individual Programs: Fall - Spring
6 weekends, Summer-5 weeks.

Student Numbers in Each Typical Program:
300

Estimated Number of Students Enrolled in
Program Each Year: Baltimore City 300; Prince
George's County 331.

Number of Students Completing Program Each
Year: Baltimore City 300; Prince George's
County 331.

Biomedical Sciences Training Program

Morgan State University, through the efforts of an interdisciplinary task force, has developed a program designed to provide career exposure, academic enrichment, and motivation for undergraduate students at Morgan State University who are interested in pursuing advanced instructional programs in the biomedical sciences and for middle and high school students from the Baltimore area who may be encouraged to pursue careers in biomedical science; and training for secondary school science and mathematics teachers. The major goal of this program are to strengthen the quality of science education, in general, and biomedical sciences education, in particular, faculty development, to intervene early into the academic lives of minority students to encourage and facilitate their movement toward biomedical careers, and to increase the number of minority students entering biomedical careers.

Sponsoring Organization: Howard Hughes
Medical Institute

Program Director or Contact: Dr. Cecil W.
Payton

Address: Cold Spring Lane and Hillen Road,

Baltimore

Baltimore, MD 21239

Telephone: (410) 319-3070

FAX: (410) 319-3743

Grade Levels: 9 - 12

Years in Operation: 3

Duration of Individual Programs: Summer

Student Numbers in Each Typical Program:
25

Estimated Number of Students Enrolled in
Program Each Year: 20-25

Number of Students Completing Program Each
Year: 20-25

Center for Educating African-American Males (PROJECT 2000)

PROJECT 2000 is a program sponsored by CEAAM which recruits and trains adult male volunteers to serve as Teacher Assistants in the classrooms of kindergarten through third grade children for one-half day per week throughout the school year. The major objective of the program is to provide positive adult male role models in the daily school experience of African-American boys who come from primarily single-parent, female-headed households and attend schools that have few if any men on the faculty or staffs. The primary goal of the project is to increase the academic achievement and decrease the level of disciplinary problems of inner-city African-American primary grade boys. In collaboration with the Baltimore City Public Schools, this program was implemented in three elementary schools in the Fall of 1990.

Sponsoring Organization: ABELL Foundation

Program Director or Contact: Spencer H.

Holland, Ph.D., Director; Kevin J. Mercer,
Project Site Coordinator

Address: Morgan State University - 308B
Jenkins Hall - Baltimore, MD 21239

Telephone: (410) 319-3275

FAX: (410) 319-3871

Grade Levels: K - 3

Years in Operation: 2

Duration of Individual Programs: Monday -
Friday (School year, Sept-June)

Student Numbers in Each Typical Program:
Approximately 300 students/school

Estimated Number of Students Enrolled in
Program Each Year: 1000

Number of Students Completing Program Each
Year: 1000

EPA/MSU Summer Intern Program

The EPA/MSU Summer Intern Program which started in 1992 offers MSU undergraduate students who are pursuing degrees in Engineering, Physical/Biological Science, Accounting, and Computer Science the opportunity to participate in mission-related research projects at EPA sites and thereby get a head start on their careers. Students work at EPA sites located throughout the country and receive a stipend of \$4,000 plus a few other benefits for the 10-week program.

Sponsoring Organization: Environmental
Protection Agency

Program Director or Contact: Roscoe Monroe

Address: Clarence M. Mitchell Engr. Bldg.,

Baltimore

Room #207

Telephone: (410) 319-3082

FAX: (410) 319-3843

Grade Levels: Sophomores/Juniors

Years in Operation: 2

Duration of Individual Programs: Summer-10 weeks

Student Numbers in Each Typical Program:
1991- 9; 1992 - 18

Estimated Number of Students Enrolled in
Program Each Year: 18-20 projected for 1993

Number of Students Completing Program Each
Year: 1991 - 8; 1992 - 18

Minority Access to Research Careers Undergraduate Training Program

The MARC Program is a special program designed to better prepare underrepresented minority students for entry into graduate programs leading to the Ph.D. degree in biomedical science. The program is open only to Honors Undergraduate students enrolled at Morgan State University majoring in Biology, Chemistry, Physics and Psychology. The program provides special curricula in the sciences as well as intramural and extramural research experiences. Each trainee must also present the results of their research experiences through an interdisciplinary seminar program.

As a part of their training, MARC trainees are required to take the Graduate Record Examination (GRE) and apply to a minimum of 5 graduate schools.

Sponsoring Organization: National Institutes

of Health

Program Director or Contact: Dr. Cecil W. Payton

Address: Dept. of Biology, Morgan State University, Baltimore, MD 21239

Telephone: (410) 319-3070

FAX: (410) 319-3473

Grade Levels:

Years in Operation: 10

Duration of Individual Programs: Academic Year

Student Numbers in Each Typical Program:
8

Estimated Number of Students Enrolled in
Program Each Year: 8

Number of Students Completing Program Each
Year: 3-4

Morgan State University Head Start Program

Head Start is a comprehensive pre-school program designed to improve the quality of life for low income families. The program encourages parent involvement realizing that to improve the life of a the pre-schooler, there must be a significant level of understanding regarding parenting. Health services are provided.

Sponsoring Organization: Baltimore City Head Start Urban Services Agency

Program Director or Contact: Teresa Pearson

Address: 2555 Harford Road, Baltimore, Maryland 21218.

Baltimore

Telephone: (410) 243-7877

FAX: (410) 243-4119

Grade Level: Pre-School

Years in Operation: 12

Duration of Individual Program(s):

Student Numbers in Each Typical Program: 122

Estimated Number of Students Enrolled in Program Each Year: 122

Number of Students Completing Program Each Year: 122

Address: Morgan State University.

Telephone: (410) 319-3390

FAX: (410) 319-3871

Grade Levels: 6 - 12

Years in Operation: 1

Duration of Individual Program(s): N/A

Student Numbers in Each Typical Program: N/A

Estimated Number of Students Enrolled in Program Each Year: N/A

Number of Students Completing Program Each Year: N/A

PROJECT PRIME (Program to Recruit and Inspire Minorities into Education)

PROJECT PRIME is a creative response to the critical minority teacher shortage. It brings together representatives from institutions of higher learning, public school systems, pre-college programs and the private sector to develop a comprehensive model to introduce middle and high school students to the teaching profession and to encourage them to consider teaching as a career. A major goal is also to increase the number of African-American youth who graduate from high school and earn a college degree. Particular emphasis will be given to the recruitment and preparation of mathematics and science teachers.

Sponsoring Organization: DeWitt Wallace Reader's-Digest Fund.

Program Director or Contact: Brenda Pitts Haynes.

Project RAISE (Raising Ambition Instills Self-Esteem)

RAISE is a seven-year commitment to help Baltimore City Public School students stay in school and to graduate. This is being done by enhancing their academic skills, strengthening their self-confidence, enlarging their horizons, and providing constructive and enjoyable group activities.

Sponsoring Organization: Morgan State University in cooperation with Baltimore City Public Schools

Program Director or Contact: Juanita Maye

Address: Frederick Douglass Sr. High School, Gwynn Falls Pkwy. & Pulaski Street, Baltimore, MD 21217

Telephone: (410) 523-2031

FAX:

Baltimore

Grade Levels: Middle School - High School

Years in Operation: 4

Number of Students Completing Program Each Year: 20

Duration of Individual Programs: Academic year

Student Numbers in Each Typical Program: 61

Estimated Number of Students Enrolled in Program Each Year: 61

Number of Students Completing Program Each Year: 61

Project Upward Bound

Project Upward Bound program is designed to motivate disadvantaged high school students to attend college. It provides academic tutoring, counseling, career development, and SAT Prep to all participants.

Sponsoring Organization: U. S. Office of Education

Program Director or Contact: Michael A. Bryant

Address: Morgan State University, Communications Bldg., Room 203

Telephone: (410) 319-3553

FAX:

Grade Levels: 9 - 12

Years in Operation: 20

Duration of Individual Programs: Year-round/Weekends

Student Numbers in Each Typical Program: 75

Estimated Number of Students Enrolled in Program Each Year: 75-85

Baltimore

Scholars for Doctorates in the Sciences (STARS)

The goal of the David and Lucile Packard Scholarship Program is to increase the presence of underrepresented African-Americans in the nation's colleges and universities. To realize this goal the Packard Program offers scholarships covering tuition, fees and books to qualifying freshman majoring in the sciences or mathematics with an entering GPA of B or better. There are also partial awards covering books and other needed instructional materials available to qualifying upperclassmen.

The program seeks to identify African-Americans who have consistently demonstrated the academic potential to master challenging science and mathematics courses and special aptitude for advanced education in sciences and mathematics. To these students the program intends to provide opportunities to engage in advanced studies leading to the Doctor of Philosophy (Ph.D.) degree or Doctor of Science (Sc.D.) degree.

Sponsoring Organization: David and Lucile Packard Foundation

Program Director or Contact: Dr. Anthony A. Teate, Assistant Dean

Address: College of Arts and Sciences,
Morgan State University

Telephone: (410) 319-3090

FAX: (410) 319-3743

Grade Levels: Freshman - Senior

Years in Operation: 1 1/2

Duration of Individual Programs: Academic Year

Student Numbers in Each Typical Program:
25

Estimated Number of Students Enrolled in Program Each Year: 25

Number of Students Completing Program Each Year: 25

Baltimore

TOWSON STATE UNIVERSITY

Environmental Center

The Environmental Center, located in the barn on the Arnold campus, is a multi-purpose facility supported in part by the government of Anne Arundel County. Focusing on the quality of Anne Arundel County's natural waterways and how that quality is affected by man's activities, the Environmental Center engages in research and education. Exhibited in the center is a growing collection of the college's Natural History Museum. Educational programs conducted in the center concerning the Chesapeake Bay and the environment in general are estuarine biology, appropriate technology, applied physics and horticulture.

Sponsoring Organization: Science Division

Program Director or Contact: Dr. M. Stephen Ailstock, Director

Address: Anne Arundel Community College

Telephone: (301) 541-2230

FAX:

Grade Levels:

Years in Operation:

Duration of Individual Programs:

Student Numbers in Each Typical Program:

Estimated Number of Students Enrolled in Program Each Year:

Number of Students Completing Program Each Year:

Environmental Science B. S. Program

Environmental Science is a Track in the Natural Science Major. For this track a student completes 58 credits with a considerable latitude of course selection. There is a core of 29 credits for general background which includes 2 semesters each of Biology, Chemistry, and Physics; and 1 semester each of Computer Science and Independent Research. The other 29 credits are chosen from electives in Biology, Chemistry, Geography, Health, Psychology and Physics. Typical course titles are: Plant Ecology, Environmental Conservation, Ecological Aspects of Health, Water Pollution, Environmental Geography, Population Geography, and Environmental Psychology. The course of study may be directed toward a career in Environmental Health (including air and water quality control, occupational hazards, food services, community hygiene, etc.); a career in Biology (conservation, ecology, etc.); in Geography (population problems, resources, biogeography, etc.); or in alternative energy development and distribution.

Sponsoring Organization: Department of Physics

Program Director or Contact: Dr. David Greene

Address: Towson State University

Telephone: (410) 830-3003

FAX:

Grade Levels:

Years in Operation:

Duration of Individual Programs:

Student Numbers in Each Typical Program:

Baltimore

**Estimated Number of Students Enrolled in
Program Each Year:**

**Number of Students Completing Program Each
Year:**

Baltimore

UNIVERSITY OF BALTIMORE

Afro-Academic, Cultural, Technological and Scientific Olympics (ACT SO)

Act-So conducts annual academic competition for senior high school students in NAACP branches throughout the country. Students compete locally in any of 24 categories, with first place winners going on to compete in the national competition which is held in conjunction with the annual NAACP convention. Every Saturday morning during the Spring semester the University of Baltimore operates an enrichment center which assists students in preparing for completion in three of these categories: original essay, playwriting, and poetry. University faculty and graduate students conduct the coaching sessions.

Sponsoring Organization: NAACP

Program Director or Contact:: Dr. Irvin Brown

Address: University of Baltimore, 1420 N. Charles Street, Baltimore, MD 21201

Telephone: (410) 625-3297

FAX: NA

Grade Levels: 9-12 grades

Years in Operation: 4

Duration of Individual Program(s): Jan. - April

Student Numbers in Each Typical Program: 30

Estimated Number of Students Enrolled in Program Each Year: 30

Number of Students Completing the Program Each Year: 30

Southwestern Senior High School Partnership

The purpose of the partnership is to supplement, where appropriate, the programs of Southwestern High School and the learning experience of SWHS students. The following activities have been undertaken through the partnership:

(1) Community Legal "Street Law" Program - Under the supervision of a UB law faculty member, UB Law Students teach classes on legal issues.

(2) "Tiger Talk" Newsletter - UB's Publication Design Program provide technical assistance (editing, layout, and printing) to SWHS in the production of their newsletter.

(3) College Workshops - Workshop have been held on getting ready for college, the college search process, applying for college, and the financial aid process.

(4) "Southwestern Day" - Groups of SWHS students are periodically brought to campus to expose them to campus life.

(5) Free tuition is offered annually from SWHS faculty and staff.

(6) Mentoring Program - UB's faculty, staff, students, and alumni mentor SWHS students.

(7) Tutoring - UB student tutor SWHS students in preparation for the Maryland Functional Mathematics Test.

(8) Career Day - Staff of UB's Career Development office sponsor workshops for SWHS students who intend to seek employment after graduation.

(9) Ceremonies - UB faculty and staff are invited to participate in formal activities

Baltimore

throughout the year, i.e., graduation, and special assembly program

Sponsoring Organization: University of Baltimore

Program Director or Contact: Dr. Jerome Paiger, Interim Provost

Address: 1420 N. Charles Street, Baltimore, MD 21201

Telephone: (410) 625-3047

FAX: (410) 539-3714

Grade Levels: 9-12

Years in Operation: 3

Duration of Individual Program(s): year round

Student Numbers in Each Typical Program: 20-40 depending on program

Estimated Number of Students Enrolled in Program Each Year: The entire student body, directly or indirectly

Number of Students Completing Program Each Year: *

Baltimore

PHILADELPHIA, PENNSYLVANIA

**Public Schools, Archdiocesan Schools, Community
Colleges, Colleges, and Universities**

Philadelphia

SCHOOL DISTRICT OF PHILADELPHIA

Number of Students Completing Program Each Year: N/A

Eco-Meet

The ECO-MEET is an environmental learning experience and competition. Its goal is to increase environmental awareness and to promote and enhance environmental learning among grades 4-11. The ECO-MEET focus on ecology helps students develop a greater appreciation of the environment. For example, senior high school teams assemble at a site along the Parkway and are given an ecological problem such as determining the pollutants in a nearby stream. Utilizing the scientific instruments necessary to solve the problem, the accuracy of each team's findings is then assessed by judges.

Sponsoring Organization: Schuykill Center for Environmental Education (SCEE)

Program Director or Contact: Nancy Christie

Address: The Schuykill Center, 8480 Hagy's Mill Road, Philadelphia PA 19128

Telephone: (215) 482-7300

FAX: (215) 482-8158

Grade Levels: 4 - 11

Years in Operation:

Duration of Individual Programs: Contests run three different weeks each year.

Student Numbers in Each Typical Program: Approx. 100 new participants each year

Estimated Number of Students Enrolled in Program Each Year: Approx. 100 new participants each year

PhilaPride

PhilaPride is a certified activity of Keep America Beautiful, Inc. PhilaPride's five major areas of focus are public education and awareness, improved technology, evaluation of ordinances and increased enforcement, youth education, and in-school education programs.

A Let's Put Waste in Place learning kit was developed by PhilaPride's Youth Education Division. The kit is used by 4th and 5th grade students and is aligned with the science participated in the staff development sessions that have provided them with the expertise and materials that make this program an exciting one for students.

Sponsoring Organization: City of Philadelphia & Greater Philadelphia First Corporation PhilaPride Program, Alcoa Recycling, The Conservation Department of the Philadelphia Zoo, The Philadelphia Coca-cola Bottling Company, PhilaPride's Clean Street Theater, The National Forest Service, Phila. Recycling Inc., and the Pennsylvania Resources Council. Program Director or Contact: Kathy Kline

Address: 123 S. Broad Street, Suite 1236, Philadelphia PA 19109

Telephone: (215) 545-5823

FAX:

Grade Levels: 4 - 5

Years in Operation:

Duration of Individual Programs: School year

Student Numbers in Each Typical Program: 75 schools

Estimated Number of Students Enrolled in

Philadelphia

Program Each Year: 75 schools

Number of Students Completing Program Each Year: N/A

teachers are trained to implement the program in the classroom. Each teacher is given a free class trip to the Environmental Center.

Estimated Number of Students Enrolled in Program Each Year: Approximately 1,000 new participants each year

Regional Environmental Education Program (REEP)

Number of Students Completing Program Each Year: N/A

REEP is a collaboration of students and staff working with curriculum materials that emphasize such concepts as: adaptations, cycles, energy and how people and their communities are affected by these concepts. Intensive teacher staff development sessions play an important role in the program. Teachers then take their classes to the center. Students have the opportunity to participate in hands-on investigatory field experiences that reflect the nature of scientific inquiry. As students work through the scientific and mathematical concepts dealing with energy and the environment, they also explore policy issues and the political processes whereby these issues move into the legislative arena.

REEP is endorsed by the state Department of Education as a model environmental program.

Sponsoring Organization: Schuylkill Center for Environmental Education (SCEE)

Program Director or Contact: Nancy Christie

Address: The Schuylkill Center, 8480 Hagy's Mill Road, Philadelphia PA 19128

Telephone: (215) 482-7300

FAX: (215) 482-8158

Grade Levels: K - 12

Years in Operation: 6

Duration of Individual Programs: Two weeks/summer

Student Numbers in Each Typical Program: 30

Philadelphia

ARCHDIOCESE OF PHILADELPHIA

Energy Education Advisory Council

Educational programs related to energy, environment and economics for grades K-12. In addition, the Council conducts workshops and other events which are part of the EEAC activities.

Sponsoring Organization: Philadelphia Electric Company

Program Director or Contact: Chuck Beckler, President EEAC

Address: 2301 Market Street, Philadelphia PA 19101

Telephone: (215) 841-4101

FAX:

Grade Levels: K - 12

Years in Operation: 16

Duration of Individual Programs: varies

Student Numbers in Each Typical Program: 400,000 (over 16 yrs.)

Estimated Number of Teachers Enrolled in Program Each Year: 35,000 (over 16 yrs.)

Number of Students Completing Program Each Year: varies

STEP

Philadelphia Electric has given Junior Achievement a grant to enable college students to teach Business Basics in the schools. PECO then hosts a seminar on environment and energy for teachers and students.

Sponsoring Organization: Philadelphia Electric

Program Director or Contact: Martin Jackson or Tina Selvaggi

Address: 3757 West Chester Pike, Newtown Square, PA 19073

Telephone: (215) 353-3090

FAX: (215) 353-4923

Grade Levels:

Years in Operation: 2

Duration of Individual Programs: Semester

Student Numbers in Each Typical Program: 22

Estimated Number of Students Enrolled in Program Each Year: 20-25

Number of Students Completing Program Each Year: 20-25

What's With Water?

The students studied water and its conservation. They visited the water plant to observe its working. They participated in the production of a calendar with drawings depicting the conserving of water.

Sponsoring Organization: Philadelphia Water

Philadelphia

Department

**Program Director or Contact: Public
Education Unit of the Water Department**

Address: 1101 Market Street, Philadelphia, PA

Telephone: (215) 592-6098

FAX:

Grade Levels: 4

Years in Operation: 1

Duration of Individual Programs: Semester

**Student Numbers in Each Typical Program:
30 in a class**

**Estimated Number of Students Enrolled in
Program Each Year: 300**

**Number of Students Completing Program
Each Year:**

Philadelphia

DELAWARE STATE COLLEGE

Forum to Advance Minorities in Engineering (FAME)

The Forum to Advance Minorities in Engineering (FAME) is designed to teach students (7 thru 10 grades) the back to the basics approach used earlier in school systems. The students meet every first and third Saturday during the academic year and four weeks during the summer.

The programs main objective is to improve the quality of education to meet the needs of tomorrow's challenges.

Sponsoring Organization: Delaware State College

Program Director or Contact: Dr. Mildred Ofosu

Address: Delaware State College, Dover, DE 19901

Telephone: (302) 739-3514

FAX: (302) 739-3567

Grade Levels: 7,8,9

Years in Operation: 3.

Duration of Individual Program(s): October - May and four weeks during the summer.

Student Numbers in Each typical Program: 80

Estimated Number of Students Enrolled in Program Each Year: 80

Number of Students Completing Program Each Year: 79

The Intensive Summer Science Program

The Intensive Summer Science Program for high school students is a four-week, all day program with tutoring in the evenings. The summer program will emphasize the development of strong english and writing skills .

For the past 11 years Delaware State has run a minority biomedical research support program funded by the National Institutes of Health. This program lets college students interested in the sciences work in a laboratory getting actual able to present their research findings at a national symposium.

Sponsoring Organization: Delaware State College

Program Director or Contact: Mildred Ofosu

Address: Delaware State College, Dover, DE 19901

Telephone: (302) 739-3514

FAX: (302) 739-3567

Grade Levels: 12th

Years in Operation: 4

Duration of Individual Program(s): Summer for four weeks - all day with tutoring in the evenings.

Student Numbers in Each Typical Program: 61

Philadelphia

Estimated Number of Students Enrolled in
Program Each Year: 61

Number of Students Completing Program Each
Year: 60

Students Numbers in Each Typical Program:
250 (This number includes numbers from
Dover, New Castle, and Sussex counties)

Estimated Number of Students Enrolled in
Program Each Year: 250

The Saturday Academy (SA)

Number of Students Completing Program Each
Year: 250

The Saturday Academy (SA) is an academic enrichment program for elementary and middle school students in grades four, five, six, seven, and eight. The Academy offers experiences and the instruction in laboratory science, mathematics, communication skills, and computer science.

The Academy is not designed to compete with the regular public school experience, but rather is intended to enhance the public school experience, to further promote the intellectual development of the students's interest in the study of mathematics and science.

The long-term objective of the Saturday Academy is to motivate and better prepare students to pursue college preparatory courses once they enter high school.

Sponsoring Organization: Delaware State College

Program Director or Contact: Mildred Ofosu

Address: Delaware State College, Dover, DE
19901

Telephone (302) 739-3514

FAX: (302) 739-3567

Grade Levels: 4-8

Years in Operation: 2

Duration of Individual Program(s): Academic
year September - April - 12 weeks during the
summer.

Philadelphia

DREXEL UNIVERSITY

Drexel/GE Second Career Teacher Program

The program provides retired aerospace engineers and scientists the opportunity to obtain Teacher certification in mathematics in the State of Pennsylvania and to pursue high school teaching as a second career.

Sponsoring Organization: National Executive Service Corps

Program Director or Contact: Dr. Freddie Reisman/Joy McCabe

Address: Drexel/GE King of Prussia

Telephone: (215) 895 -6770 Drexel; 354-2165 GE

FAX: (215) 895-4999

Grade Levels: Retired Professionals

Years in Operation: 5

Duration of Individual Program:

Student Numbers in Each Typical Program: 10 - 14

Estimated Numbers of Students Enrolled in Program Each Year: 12

Number of Students Completing Program Each Year: 12

Philadelphia

LASALLE UNIVERSITY

Environmental Workshop

Personnel from environmental companies, Sun Oil, Arco Chemical, Philadelphia Electric Company, Montgomery County Department of Health, etc. presented illustrated talks about air and water pollution, alternative fuels, chemical and solid waste disposal, energy efficiency, etc. Speakers also talked about career opportunities in those fields. This year hands-on lab work will be included in the program.

Sponsoring Organization: LaSalle University

Program Director or Contact: Dr. Henry Bart

Address: Dept. of Geology and Physics, 1900 W. Olney Avenue, Philadelphia, PA 19141

Telephone: (215) 951-1268

FAX: N.A.

Grade Levels: 11, 12

Years in Operation: 2

Duration of Individual Programs: one day

Student Numbers in Each Typical Program: 200

Estimated Number of Students Enrolled in Program Each Year: 200

Number of Students Completing Program Each Year: 200

and interest in younger high school students for the natural sciences. Hopefully this interest, once developed, will be nurtured and ultimately will result in a resurgence of interest in careers in science and technology.

The Environmental Workshop also involves all the science departments. In this program students collect biological, water, and geological samples above and below a sewage treatment plant to determine how the waste water affects a stream and its occupants.

Sponsoring Organization: LaSalle University

Program Director or Contact: Dr. Norbert F. Belzer

Address: Dept. of Biology, 1900 W. Olney Avenue, Philadelphia, PA 19141

Telephone: (215) 951-1250

FAX:

Grade Levels: 9, 10, 11

Years in Operation: 6

Duration of Individual Programs: one day

Student Numbers in Each Typical Program: 40-50

Estimated Number of Students Enrolled in Program Each Year: 50-300

Number of Students Completing Program Each Year: 50-300

Forensics/Environmental Workshops

To develop and cultivate a sense of excitement

Philadelphia

TEMPLE UNIVERSITY

B.S. Environmental Engineering Technology

The bachelor's degree program in Environmental Engineering Technology is offered on the Main Campus and the Ambler Campus. Students may complete the required coursework in either location. The curriculum in Environmental Engineering Technology provides a broad base of technical skills extending across the traditional fields of engineering while developing specialized abilities in the environmental field. The specialized courses for this program are offered at the Main Campus. Distribution requirements include: mathematics 12 s.h. (semester hours), physics 12 s.h., composition, English, humanities/social science electives and rhetoric and communications 27-30 sh.h., electives-free and business management 55 s.h., and environmental electives 21 s.h. for a total of 127-130 s.h.

Sponsoring Organization: Civil Engineering Department, Temple University

Program Director or Contact: Dr. Donald Humphreys

Address: College of Engineering, Computer Science, Architecture, Temple University, Philadelphia, PA 19122

Telephone: (215) 787-7818

FAX: (215) 787-3777

Grade Levels: College

Years in Operation: 17

Duration of Individual Programs(s): 4 years

Student Number in Each Typical Program : 15

Estimated Number of Students Enrolled in Program Each Year: 60

Number of Students Completing Program Each Year: 10

M.S. in Civil Engineering with an Environmental Engineering Major

The Master of Science in Civil Engineering with an Environmental Engineering Major will be oriented toward part-time students with all courses offered in the late afternoon or early evening. The typical part-time student will be expected to complete the program in three years. Full-time students will be admitted to the program only in the Fall semester so as to preserve the integrity of course sequencing. Part-time students may be admitted at any time. Specific courses requirements may be obtained by contacting Dr. Fred Higgins.

Sponsoring Organization: Temple University

Program Director or Contact: Dr. Frederick Higgins

Address: College of Engineering, Computer Science, and Architecture, Temple University, Philadelphia, PA 19122

Telephone: 787-3178

FAX: 787-3777

Grade Levels: graduate

Years in Operation: 1

Duration of Individual Program(s): 2 years

Philadelphia

Students Numbers in Each Typical Program: 6-10

Estimated Number of Students Enrolled in Program Each Year: 15

Number of Students Completing Program Each Year: no graduates to date

Philadelphia

UNIVERSITY OF PENNSYLVANIA

Penn Program for Public Service (PPPS)

Penn faculty and students have refined their approach to research, replacing the concept of "Expert Knowledge" that flowed in only one direction, from university to community, with a working relationship between scholars and community members where learning goes in both directions. The PPPS Program is based on the belief that universities can make significant contributions to both the advancement of knowledge and the improvement of human welfare through helping to solve the real and immediate problems of their communities.

Sponsoring Organization: University of Pennsylvania

Program Director or Contact: Dr. Ira Harkavy

Address: 3440 Market Street, Suite 440,
Philadelphia, PA 19104

Telephone: (215) 898-5351

FAX: (215) 898-6652

Grade Levels: Undergraduate, Graduate &
Faculty

Years in Operation: 9

Duration of Individual Program: Semester

Student Numbers in Each Typical Program: 25

Estimated Numbers of Students Enrolled in
Program Each Year: 100

Number of Students Completing Program Each
Year: 100

Program for Student - Community Involvement

Provides coordination and support for 30 to 40
student-run community involvement programs
such as:

- **Positive Images:** Brian Peterson - Student Coordinator
A group of African-American Penns students serve as mentors for high school students in the West Philadelphia area. Positive images extends their services by going into the school and tutoring those students in need.
- **ACELA, The Latin American Students Association:** Pam Ureta - Student Coordinator
The association attempts to develop the Latino presence at Penn. Concerns include admitting and retaining Latino Students at the University; exposing the political, cultural and social aspects of Latino peoples and nations; and educating the Penn community about the issues of Latino peoples today and community service in predominately Hispanic areas of North Philadelphia. Acela runs a tutoring program that seeks to help low-income/disadvantaged elementary and junior high school children with their reading and mathematics. This program is run from October - December and again from February - April.
- **Penn Environmental and Recycling Group:** Henry Willis - Student Coordinator
Students are heavily involved in environmental issues, such as styrofoam usage and global warming. They are supportive in the recycling of cans and computer paper.

A directory of programs is available.

Sponsoring Organization: University of

Philadelphia

Pennsylvania

Program Director or Contact: Todd Waller,
Director

Address: 3601 Locust Walk, Philadelphia, PA
19104

Telephone: (215) 898-4831

FAX: (215) 898-0843

Grade Levels:

Years in Operation: 10

Duration of Individual Program: varies

Student Numbers in Each Typical Program:
varies

Estimated Numbers of Students Enrolled in
Program Each Year:

Number of Students Completing Program Each
Year:

INDUSTRY, GOVERNMENT & NOT- FOR-PROFIT ORGANIZATIONS

Listed in Alphabetical Order

**Public Schools, Archdiocesan Schools, Community
Colleges, Colleges, and Universities**

Industry, Government & Not-for-Profit Organizations

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (AAAS)

Telephone: (202) 326-6680

FAX: (202) 371-9849

Grade Levels: K - 12

Years in Operation: 6

Duration of Individual Programs: continuous

Student Numbers in Each Typical Program:
225 trained in 1991

Estimated Number of Students Enrolled in
Program Each Year: 200 - 300

Number of Students Completing Program
Since Inception: 1000

Black Church Project

The objective of the AAAS Black Church Project is to train church staff members and volunteers (often certified teachers and science/technology professionals) to conduct the following activities:

- Science and Mathematics Workshops - To help parents encourage their children's interest and success in science and mathematics.
- Science and Mathematics Career Days - To help young people and their parents find out about career opportunities in science-related fields.
- Public Science Days - To help the general community to visit local science museums and find out more about science and technology issues.

Coalition of churches have been established in 16 cities including Baltimore, Philadelphia, and Washington, D.C.

Sponsoring Organization: American Association of the Advancement of Science (AAAS) with Ford Foundation funding

Program Director or Contact: Rev. Audrey B. Daniel

Address: 1333 H Street, N.W., Washington, DC 20005

CONSORTIUM OF AREA UNIVERSITIES, BUSINESSES, AND NON- PROFIT ORGANIZATIONS

The West Philadelphia Partnership (The Collaborative for West Philadelphia Public Schools)

The Collaborative for West Philadelphia Public School was established in April 1986 by agreement between schools Superintendent Constance Clayton and University President Sheldon Hackney to form an organization linking schools with higher education, business and community organizations. Activities the Collaborative sponsors include:

- Hire West Philadelphia - a program designed to match unemployed West Philadelphia residents with employment in West Philadelphia. Also provides the necessary training to develop skills required to obtain jobs.
- Buy West Philadelphia - a program designed to encourage West Philadelphia corporations to purchase from local vendors.
- Tutoring - over 300 tutors provided by Penn. Drexel and the Philadelphia College of Pharmacy and Science tutor in 24 public school. Most of the tutoring is one on one, offering help in mastering basic skills.
- Bridging the Gap - Bridging the Gap is a research and school improvement project which increases interaction between

elementary, middle and high schools so that failure rates and dropout rates are reduced.

- A college Advisement and Scholarship Endowment Fund - In the spring of 1988 the Collaborative launched a campaign to raise \$1.6 million to provide funds for students graduating from three West Philadelphia high schools.

Sponsoring Organization: Consortium of Area Universities, Businesses and Non-Profit Organizations

Program Director or Contact: Rae Scott-Jones, Executive Director

Address: 3901 Market Street, Box 1948, Philadelphia, PA 19104

Telephone: (215) 386-5757

FAX: (215) 386-3220

Grade Levels: All plus Adults

Years in Operation: 6

Duration of Individual Program: varies

Student Numbers in Each Typical Program: 300 tutors/yr.

Estimated Numbers of Students Enrolled in Program Each Year:

Number of Students Completing Program Each Year:

EPA REGION III

Urban Environmental Risk Initiative

To identify the potential environmental risk posed to urban environments and their inhabitants in order to effectively target opportunities for environmental improvement. This program has been started in Baltimore.

Sponsoring Organization: EPA Region III

Program Director or Contact: Dominique H. Lueckenhoff

Address: U.S. EPA Region III, 841 Chestnut Street Bldg.; Philadelphia, PA 19107

Telephone: (215) 597-9800 Ext. 6529

FAX: NA

Grade Levels: All Plus adults

Years in Operation: 1

Student Numbers in EACh Typical Program: NI

Estimated Number of Students Enrolled in Program Each Year: NI

Number of Students Completing Program Each Year: NI

The Center for Environmental Learning

The Center for Environmental Learning promotes environmental education, to improve the public understanding of current and emerging policy issues, and to increase opportunities for the public to communicate with the Environmental Protection Agency.

The center sponsors environmental lectures featuring prominent speakers and cosponsors forums and seminars. These sessions, both within EPA and throughout Region III, focus on issues such as waste minimization, SARA Title III, air toxics, risk analysis and risk communication, indoor air pollution, environmental education trends, and dispute resolution. Video-tapes on some sessions are available.

The Center, with assistance and guidance from its Advisory Board members, selects and presents official EPA Region III Environmental Education Awards to exemplary education programs in a variety of categories.

Sponsoring Organization: EPA Region III

Program Director or Contact: Bonnie Smith

Address: EPA Region III, 841 Chestnut Bldg., Philadelphia, PA 19107

Telephone: (215) 597-9076/9072

FAX: (215) 597-8255

Grade Levels: K-12

Years in Operation: 5

Students Numbers in Each Typical Program: Varies

Estimated Number of Students Enrolled in Program Each Year: NI

Number of Students Completing Program Each Year: NI

Industry, Government & Not-for-Profit Organizations

PATHS/PRISM

Number of Students Completing Program
Each Year: N/A

Grants for Teachers and Schools

PATHS/PRISM grants are awarded to School District of Philadelphia teachers and administrators in support of educational innovation. All grant-supported projects must have a direct application in the classroom and must be rooted in the humanities, arts, sciences, or mathematics.

Applications generally appear in schools in January and are due in mid-April. Grants are awarded in the late spring for the following academic year.

Sponsoring Organization: PATHS/PRISM:
The Philadelphia Partnership for Education

Program Director or Contact: Susanne Lynch

Address: 7 Benjamin Franklin Parkway,
United Way Building, Suite 700, Philadelphia,
PA 19103

Telephone: (215) 665-1400

FAX: (215) 864-2494

Grade Levels: Pre-K - 12

Years in Operation: 9

Duration of Individual Programs: Academic
year

Student Numbers in Each Typical Program:
12-100

Estimated Number of Students Enrolled in
Program Each Year: N/A

NSF's Comprehensive Regional Center for Minorities (CRCM)

The CRCM/PATHS/PRISM Consortium has created an environment which has moved SEM (Science, Engineering, and Mathematics) education and career opportunities to a level that has achieved national recognition. The strength of the Consortium is in the commitment of its resource partners and its 20 year longevity in SEM educational and career development programs. They have trained 119 non-certified and 43 certified middle school mathematics teachers in Pre-Algebra and Algebra. CRCM funding enabled PRIME to exceed its 5-year expansion plan in 2 years. A direct result of the CRCM funding for the expansion of PRIME to the New Jersey area was the formation of the Camden Alliance, a partnership of colleges/universities serving the Camden County school districts. Also, a program designed to train teachers in the use of technology has resulted in a district-wide change in the 8-12th grade mathematics curriculum in the Lower Camden County School District.

Sponsoring Organization: PATHS/PRISM:
The Philadelphia Partnership for Education

Program Director or Contact: Stephen R. Cox

Address: 7 Benjamin Franklin Parkway,
United Way Building, Suite 700, Philadelphia,
PA 19103-1294

Telephone: (215) 665-1400

FAX: (215) 864-2494

Grade Levels: K - Ph.D.

Industry, Government & Not-for-Profit Organizations

Years in Operation: 3

Duration of **(Multiple)** Individual Programs:
Summer and Academic year

Student Numbers in Each Typical Program:
40 - 70

Estimated Number of Students Enrolled in
Program Each Year: 2000 - 3000

Number of Students Completing Program
Each Year: 3 programs are continuing from
year to year.

Grade Levels: 5 - 8

Years in Operation: Less than one

Duration of Individual Programs: 3 years

Student Numbers in Each Typical Program:
182 teachers

Estimated Number of Students Enrolled in
Program Each Year:

Number of Students Completing Program
Each Year:

Science Resource Leaders

The goal is to develop a team of 2 teachers at each school serving the middle grade student in the School District of Philadelphia that can advocate for science as the schools move toward site based management. The Resource Leaders will assist administration in a plan for on site staff develop, assist colleague in obtaining Resource and bring Community Resources to the school.

Sponsoring Organization: PATHS/PRISM,
School District of Philadelphia, Drexel,
NOBCCHE

Program Director or Contact: Emily Meyers,
PATH/PRISM; Curtis Howard, School
District of Philadelphia

Address: 7 Benjamin Franklin Parkway,
United Way Building, Suite 700, Philadelphia,
PA 19103

Telephone: (215) 665-1400

FAX: (215) 864-2494

Industry, Government & Not-for-Profit Organizations

PEPCO (Potomac Electric Power Company)

DCPS/PEPCO Math and Science Camp

This is a summer enrichment program combining the resources of the public schools and the local electric utility in Washington, D.C. Campers may enroll from any school; but because the camp is located in a specific elementary school beside the power plant, most attend the site school. Students self-select by interest. The camp is not geared for a particular population (special, gifted). All are welcome. The 2 week session stresses hands-on involvement, field trips, enrichment, and has no tests. Power plant facility tours are a part of the activities; e.g. students went on a trip to a nearby aquatic garden, then took water samples to the chemistry lab for analysis. The camp continues a school program in video-taping, so major activities are documented on film.

Sponsoring Organization: PEPCO (Potomac Electric Power Company)

Program Director or Contact: Juliette W. Smith

Address: 1900 Pennsylvania Avenue, N.W., Room 506, Washington, D.C. 20068-0001

Telephone: (202) 872-2975

FAX: (202) 331-6484

Grade Levels: 4 - 5 - 6

Years in Operation: 3

Duration of Individual Programs: 2

weeks/Summer

Student Numbers in Each Typical Program: 30/(plan for 60 in 1993)

Estimated Number of Students Enrolled Program Each Year: 30

Number of Students Completing Program Each Year: 30

Schedule of Educational Coordinator

PEPCO has a full-time staff person to respond to requests from schools for classroom assistance. The educational coordinator will visit classrooms to talk about: PRODUCTION OF ELECTRICITY, CONSERVATION, SAFETY, CAREERS, or any relevant topic requested. PEPCO purchases educational materials for teachers to use with or without a visit from the educational coordinator.

Sponsoring Organization: PEPCO (Potomac Electric Power Company)

Program Director or Contact: Juliette W. Smith

Address: 1900 Pennsylvania Avenue, N.W., Room 506, Washington, D.C. 20068-0001

Telephone: (202) 872-2975

FAX: (202) 331-6484

Grade Levels: All (K-12)

Years in Operation: over 10

Duration of Individual Programs: class period 1 hour plus or minus

Student Numbers in Each Typical Program:

Industry, Government & Not-for-Profit Organizations

varies

Estimated Number of Students Enrolled
Program Each Year: varies

Number of Students Completing Program
Each Year: N/A

Industry, Government & Not-for-Profit Organizations

PHILADELPHIA HIGH SCHOOL ACADEMIES, INC.

Estimated Number of Students Enrolled in
Program Each Year: 250

Number of Students Completing Program
Each Year: 45 Graduates in 1992

Environmental Technology Academy

The Environmental Technology Academy is a four year career development program for high school students that offers specialized classroom, laboratory and field training in the monitoring and analysis of the environment. This is the only program of its type offered on the high school level in the United States and, as such, provides the Academy graduate with a tremendous advantage over other candidates for further education or employment in the field of environmental assessment and control.

Sponsoring Organization: Philadelphia High School Academies, Inc./The School District of Philadelphia

Program Director or Contact: David Kipphut,
Coordinator

Address: Abraham Lincoln High School,
Rowland and Ryan Avenues, Philadelphia, PA
19136

Telephone: (215) 333-8450

FAX:

Grade Levels: 8 - 12

Years in Operation: 4

Duration of Individual Programs: 4 Academic
years

Student Numbers in Each Typical Program:
250

PHILADELPHIA WATER DEPARTMENT

Estimated Number of Students Enrolled in Program Each Year: 500-1000

Number of Students Completing Program Each Year: Not Applicable

Partnerships for Environmental Action

This program was initiated by the Philadelphia Water Department which formed a Consortium comprising the Academy of Natural Science, the Franklins several environmental advocacy groups, the School District of Philadelphia, and PATHS/PRISM. The mission is to attract middle school children to environmental careers. The consortium envisions hiring a full-time director. Each school would identify and solve an environmental problem in their neighborhood.

Sponsoring Organization: Drew Brown (Chairs group)

Address: Philadelphia Water Department, Public Education Unit, ARA Tower at Reading Center, 1101 Market Street, Philadelphia, PA 19107

Telephone: (215) 592-6098

Grade Level(s): 7th

Years in Operation: In preparation

Duration of Individual Program(s) 1 year

Student Numbers in Each Typical Program: 5 schools initially

What's With Water?

The program provides a curriculum supplement titled "What's with Water?" It also includes (1) a skit which the children act out called "Miss Drizzle" (2) a visit to a water treatment plant, and a calendar drawing contest.

Sponsoring Organization: Philadelphia Water Department in cooperation with the Philadelphia Public Schools and the Archdiocese schools

Program Director or Contact: Drew Brown

Address: Philadelphia Water Department, Public Education Unit, ARA Tower at Reading Center, 1101 Market Street, Philadelphia, PA 19107

Telephone: (215) 592-6098

FAX: N/A

Grade Levels: 4-5

Years in Operation: 1

Duration of Individual Program(s): 1 yr.

Student Numbers in Each Typical Program: 35/ class x 40 classes

Estimated Number of Students Enrolled in

Industry, Government & Not-for-Profit Organizaiton

Program: 1000/ yr.

Number os Students Completing Program
Each Year: 1000 (consecutive)

Industry, Government & Not-for-Profit Organizations

PRIME (Philadelphia Regional Introduction of Minorities to Engineering)

PRIME, Inc.

PRIME recruits African-American and Hispanic students in the seventh grade. Students selected show a particular aptitude for mathematics and science. They are then provided with up to six years of specialized instructions in math, science, and communications, including special summer instructions in area colleges and universities. PRIME motivates minority youth, provides them with the academic background and help them build confidence to excel in these demanding fields. Statistics show that 100% of PRIME students graduate from high school, 96% of these graduates enter college, and 80% of those who enter college go on to graduate. Currently more than 1000 PRIME graduates are attending 160 colleges and universities across the country. Since its inception in 1974 over 40,000 minority students have been served by the PRIME program.

Sponsoring Organization: Businesses, Industries, Foundations, and Individuals

Program Director or Contact: Dr. Alexander Tobin

Address: 1700 Walnut Street, Suite 1201, Philadelphia, PA 19103

Telephone: (215) 893-8500

FAX:

Grade Levels: 7 - 12

Years in Operation: 18

Duration of Individual Programs: Academic year and summers

Student Numbers in Each Typical Program: 65

Estimated Number of Students Enrolled in Program Each Year: 5,500

Number of Students Completing Program Each Year: 5,500

Industry, Government & Not-for-Profit Organizations

**WEST PHILADELPHIA
PARTNERSHIP**

Number of Students Completing Program
Each Year:

**West Philadelphia Improvement
Corporation (WEPIC)**

This is a school-based neighborhood and school improvement program focusing on youth in West Philadelphia. WEPIC serves well over 100 students at half a dozen schools and engages them during the school year and summer in educational activities designed to improve their community. The program was conceptualized in 1985 by an undergraduate honors seminar at the University of Pennsylvania by the President of the University and other faculty.

Sponsoring Organization: West Philadelphia Partnership

Program Director or Contact: Michael Connelly, Director of Operations

Address: 3901 Market Street, Box 1961, Philadelphia, PA 19104

Telephone: (215) 222-8680

FAX: (215) 898-0843

Grade Levels: K - 12 and Adults

Years in Operation: 8

Duration of Individual Program: varies

Student Numbers in Each Typical Program:
100

Estimated Numbers of Students Enrolled in
Program Each Year: 100

REFERENCES

Chesapeake Bay Urban Teacher Training Series on Pollution Prevention. Workshop notes, Baltimore City Schools Professional Development Center, Baltimore, Maryland, Friday, March 13, 1992, Sponsored by Chesapeake Bay Program, US Environmental Protection Agency, US Fish and Wildlife Service, and the Chesapeake Bay Foundation. Contact: Danielle Algazi, EPA Region III, 841 Chestnut Building, Philadelphia, PA 19107 (215) 597-1168.

Chesapeake Citizen Directory-A Guide to Agencies and Organizations. Published by the Alliance for the Chesapeake Bay, Inc., 6600 York Road, Baltimore, Maryland 21212.

A Compendium of Cooperative Programs. Baltimore City Public Schools and Johns Hopkins University, February 1992. Contact: Dr. Robert Slavin, Co-director, Baltimore Public Education Institute, Center for Social Organization of Schools, (410) 516-7570.

Cooperative Programs Between the Baltimore City Public School System and the Public and Independent two-year and four-year Colleges and Universities of the Metropolitan Baltimore Region. Center for Excellence in Urban Education at Coppin State College, Expected publication date-early September 1992. Contact: Dr. Joseph Brandon or Dr. Patricia Hauk (301) 383-5505, FAX (301) 333-7160.

EDUCATION INITIATIVE:EEI 2000. 1992 Directory of Educational Services, Edison Electric Institute, 701 Pennsylvania Avenue, NW, Washington, DC 20004-2696. Contact: Walt Purdy, Director, Educational Services, (202) 508-5591.

Greater Philadelphia Business Guide to Education and Training. Greater Philadelphia Economic Development Coalition, 1818 Market Street, Suite 3510; Philadelphia, PA 19103-3681.

Outreach and Public Service Activities Provided by Baltimore Area UMS Institutions for Elementary and Secondary School Systems. Report from the William Donald Schaefer Center for Public Policy, University of Baltimore, Baltimore, Maryland, April 1990. Contact: Dr. Larry W. Thomas, Director of Mr. Jeff Slowikowski, Principal Researcher.

Pennsylvania Energy. Vol. 6, no. 1, Spring 1992, Pennsylvania Energy Office; 116 Pine Street; Harrisburg, PA 17101-9927.

The 1992 Philadelphia Environmental Education/Awareness Program Directory. Philapride, 123 South Broad Street, Suite 1326, Philadelphia, PA 19109. (215) 545-5823.

Regional Environmental Education Program (R•E•E•P). Is a kindergarten through Grade 12 curriculum, produced as a result of a six-year project involving 400 teachers in a fifteen county area of southeastern Pennsylvania and southern New Jersey, and eleven coordinating nature/environmental centers. The first seven units are: Kindergarten, *The Five Senses*; Grade 1, *Plants and Animals*; Grade 2, *Communities*; Grade 3, *Adaptations*; Grade 4, *Energy*; Grade 5, *Cycles*; Grade 6, *Communities*, Contact: The Schuylkill Center for Environmental Education, 8480 Hagy's Mill Road, Philadelphia, PA 19128; (215) 482-7300.

SAVING MINDS - Black Churches and Education. By Yolanda S. George, Vincent Richardso, Marsha Lakes-Matyas and Fredrick Blake with executive summary by Shirley M. Malcom, American Association for the Advancement of Science (AAAS), Education and Human Resources (EHR), 1333 H. Street, NW, Washington, DC, 20005. Contact: Rev. Audrey B. Daniel (202) 326-6670.

Science, Society, and America's Nuclear Waste. A four unit Teacher Guide: Unit 1, Nuclear Waste, Unit 2, Ionizing Radiation, Unit 3, The Nuclear Waste Policy Act, and Unit 4, The Waste Management System. OCRWM Information Center, Attention: Curriculum Department, P.O. Box 44375, Washington, DC 20026.

What's With Water? The Philadelphia Water Department, Curriculum Supplement, Lessons and Activities for 4th and 5th grades, 1992. Contact: Philadelphia Water Department Public Education Unit, ARA Tower at Reading Center; 1101 Market Street; Philadelphia, PA 19107 (215) 592-6098.