

AFTER-SCHOOL PROGRAMS

4-H After-School

Ohio 4-H offers educational programs for youth outside of school hours, usually in a school or other community center, incorporating 4-H curricula. 4-H After-School provides opportunities for youth to participate in fun, exciting learning opportunities while developing valuable skills with lifelong benefits. Offerings include 4-H club activities, agriculture curriculum, youth workforce development, and healthy lifestyles.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-4444, www.ohio4h.org/afterschool/

Adventure Central

Adventure Central is an in-depth partnership between Ohio State Extension 4-H Youth Development and Five Rivers MetroParks that is designed to engage youth in development using a foundation of science and nature subject matter and providing homework assistance, healthful meals, and a variety of learning activities. Adventure Central program models include after-school activities, a youth leadership board, workforce preparation training and work-based learning experiences, clubs, overnight camp, and summer day camp. Over 300 youth participate in programming at Adventure Central each year, translating to more than 60,000 contact hours. Volunteers, college students, and staff members learn through direct experience with applied research projects, evaluation efforts, pilot programming, and ongoing opportunities for teens. Adventure Central Wilderness Adventures Camp and 4-H After-School Program provide opportunities for youth to be mentored by positive adult role models. Adventure Central Family Programs help strengthen relationships between families and schools. Adventure Central Workforce Preparation helps youth learn about careers and life skills through Junior Achievement, Real Money, Real World, and JET (Job Experience and Training).

Participating Schools: Schools in Montgomery County

Ohio State Contact: 4-H Youth Development, OSU Extension, 937-278-2601.

Ask-A-Buckeye Homework Hotline

A hotline for middle and high school students in central Ohio schools provides help in science and math homework as part of the College of Engineering link with the Columbus City Schools STEM Advisory Board. The help is free and available for one or multiple calls.

Participating Schools: Franklin County: Columbus City, Hilliard City, Worthington City.

Ohio State Contact: College of Engineering, 614-761-8346. External Partner: Columbus City Schools STEM Advisory Board.

Math and Science Club

The club aims to improve students' academic skills and increase their knowledge of math and science. Through monthly meetings, the club challenges students (grades 4-7 and 8-12) to develop critical thinking, problem solving, and comprehension and to understand mathematical principles and physical sciences while having fun. Activities are also designed to increase the awareness of students of color regarding career opportunities in math- and science-related careers.

Participating Schools: Schools in Franklin County.

Ohio State Contact: OSU Medical Center, 614-293-5972, aaascec.osu.edu/programs/default. Ohio State Partners: College of Arts and Sciences, African American and African Studies Community Extension Center and Division of Natural and Mathematical Sciences; College of Medicine.

AGRICULTURE, ENVIRONMENT, AND NATURAL RESOURCES

A Bug's World

Over 1,100 students registered for 8th annual A Bug's World on OARDC's Wooster campus last spring to learn about insects and their other arthropod relatives. Sessions included such topics as Aquatic Insects; the Bug Zoo; Busy, Busy Bees; Café Insecta; Collecting & Preserving Insects; Critters Up Close; Insects & Host Plants, Insects in Ecology, Insect Olympics, Insect Friends, Pollination Jubilation, Whiz-Bang Science Show and Who's Been Eating My Lunch? Faculty and staff from OARDC's entomology department and Computing and Statistical Services conducted all the sessions, and the sessions connected with all six of the state's science content standards and addressed around 70% of the state's science benchmarks. Since the program began in 2003, more than 6,000 students have participated in A Bug's World.

Participating Schools: Available to all districts/schools/youth in Ohio. Only a limited number of districts/schools/youth can be served

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview3.asp?id=1207.

College Caravan/Northeast Ohio Council for Higher Education Partnership

In the fall of 2009, 4-H in Cuyahoga County used information and materials from the program as part of a partnership with the Northeast Ohio Council for Higher Education (NOCHE) to highlight opportunities related to green careers in conjunction with their fall College Caravan program. Program consisted of an educational display highlighting alternate forms of energy (solar, wind, geothermal) and models of energy systems using these principles. Students received a fact sheet highlighting range of career opportunities emerging with green careers and a word search puzzle to help familiarize them with key concepts and career possibilities. Visits to each school lasted approximately 60 to 90 minutes. Approximately 350 youth took part at the 10 sites. Information presented was regarded by NOCHE to be of significant value to participants. The program led to additional career programming conducted at two participating schools in second half of 2010 school year, which involved an additional 100 youth.

Participating Schools: Cuyahoga County: Cleveland Metropolitan—Carl F. Schuler High, Ginn Academy of Glenville High School, Garrett Morgan School of Science, Max Hayes Vocational High, James Ford Rhodes High, Jane Addams Business Careers Center, John F. Kennedy High, John Marshall High, Whitney Young High; Warrensville Heights City—Warrensville Heights High.

Ohio State Contact: Cuyahoga County, OSU Extension, 216-429-8200. External Partner: Northeast Ohio Council for Higher Education.

Environmental Education

A total of 665 youth from Bryan, Millcreek-West Unity, and North Central Local school districts participated in environmental education through hands-on learning activities conducted by the 4-H Youth Development and Ag and Natural Resources Educators. Programs included Why Trees Matter; Wildlife of Northwest Ohio; Fur Bearing Animals and the Role They Played in the Discovery of American Land.

Participating Schools: Williams County: Bryan City, Millcreek-West Unity Local, North Central Local.

Ohio State Contact: Williams County, 4-H Youth Development, OSU Extension, williams.osu.edu.

Good Natured Garden Partners

The Good Natured Garden Partners program promotes and rewards vegetable gardening for youth in the urban areas of Mahoning County. The program is modeled after two traditional Extension programs, 4-H and the county fair. A group consisting of at least one adult leader and one child registers as a Growing Team and chooses a site for their garden. The registered teams receive their free plants at a kickoff luncheon. Extension sends growing information to the team throughout the season and holds a produce-judging competition in late summer.

Participating Schools: Schools in Mahoning County.

Ohio State Contact: Mahoning County, OSU Extension, 330-533-5538.

Gwynne Conservation Area Youth Programming

The Gwynne Conservation Area provides a conservation and natural resource land lab for schools in need of such a facility. Extension personnel, in cooperation with staff of the Molly Caren Agricultural Center, make the Gwynne available to schools and facilitate educational programming by cooperating with agencies such as the Ohio Department of Natural Resources. The School of Environmental and Natural Resources also develops conservation and natural resource education programming for youth during the 3-day Farm Science Review held in September each year. Specific programs and activities, such as stream ecology and management, soil science, forestry, and wildlife ecology, are offered to schools visiting the Gwynne. In the last 4 years, a total of 10,500+ youth have visited the Gwynne during the Farm Science Review. The Gwynne is used by local school districts as a lab for middle school and high school students to prepare for Envirothon competitions.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: School of Environmental and Natural Resources, College of Food, Agricultural, and Environmental Sciences, 614-292-3823, senr.osu.edu/images/gwynne.pdf.

Junior Master Gardener Programs

Spring and summer gardening programs are offered to youth in various settings, with lessons based on the Junior Master Gardener curricula and Ohio 4-H project books. The projects help youth learn about gardening, growing plants from seed, identifying plants/vegetables, and tasting vegetables that may be unfamiliar. The programs develop basic science and life skills.

Clermont County—Spring and summer gardening programs are offered to youth in various settings, with lessons based on the Junior Master Gardener curricula and Ohio 4-H project books. The projects help youth learn about gardening, growing plants from seed, identifying plants/vegetables, and tasting vegetables that may be unfamiliar. The programs develop basic science and life skills. This group engages youth in hands-on group and individual learning experiences that promote a love of gardening, an appreciation for the environment, and community service volunteering. The county Juvenile Detention Center along with a limited number of local schools/youth can be served. A small activity fee is collected to cover cost of consumable materials. Data is being collected and will be shared with partners.

Franklin County Habitat Helpers—Participants in the Junior Master Gardener program, conducted at Dublin's Chapman Elementary School from February through October, used the outdoor school habitat for lessons led by school staff and a Master Gardener volunteer. Twenty-four students participated during the school year, and several continued to come to summer sessions. Youth learned about plants, growing vegetables, streams and pollution, and built a special Japanese meditation garden.

Portage County—Junior Master Gardeners was conducted at Carlin Elementary. Portage County Master Gardeners partnered with local agencies to offer the first annual Green Camp. OSU Extension 4-H, Portage County Soil and Water Conservation District, Portage County Solid Waste Recycling Center, Ohio Department of Natural Resources, Kent Environmental Council, and City of Ravenna Parks and Recreation provided leadership for 10 learning stations as part of a 1-day event at Chestnut Hills Park in Ravenna. Over 250 school-age youth participants learned

that individual choices can have immediate and lasting impacts on the quality of natural resources, including water, soil, and air quality.

Participating Schools: Schools in Clermont County. Franklin County: Dublin City—Albert Chapman Elementary. Portage County: Ravenna City—Carlin Elementary.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/youth/index.html.

Outdoor Learning Centers

An 18-month Ohio Environmental Education Fund grant supports Outdoor Learning Centers in four Allen County schools. Each school has an OLC (Outdoor Learning Center) and a weather station. Data and statistics will be compared among the schools via the school website link.,No,

Participating Schools: Allen County: Allen East Local, Lima City, Spencerville Local, Toledo Catholic Diocese.

Ohio State Contact: Outreach & Engagement, College of Education and Human Ecology, Ohio State Lima, 419-995-8437, lima.osu.edu/academics/Outreach/.

Scarlet, Gray, and Green Fair

The third annual Scarlet, Gray, and Green Fair, held at the Ohio Agricultural Research and Development Center on Earth Day, featured the following activities for local schools: creative art competition; poster, 3-D display, skit, song, poem, or video competition; environmental stewardship essay competition (grades 11-12); wind turbine design competition (grades 9-12); most ecological yardscape award (7th- through 12th-graders and their parents); and Environmental Educator of the Year. The event was cosponsored by the Wayne County Sustainable Energy Network.

Participating Schools: Schools in Ashland, Medina, Summit, and Wayne counties.

Ohio State Contact: Agricultural Technical Institute, College of Food, Agricultural, and Environmental Sciences, www.wcsen.org/WCSGGF/index.html. Partners: Ohio Agricultural Research and Development Center, Wayne County Sustainable Energy Network.

Science of Agriculture Workshops

OARDC's Science of Agriculture workshops bring students from kindergarten to seniors in high school to the Wooster campus to participate in hands-on science and real-world experiments with OARDC researchers from such departments as plant pathology; horticulture and crop science; food, agricultural and biological engineering; food animal health, computing and statistical services.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview2.asp?id=1205.

To the Garden We Grow

A horticulture-based nutrition education program, To the Garden We Grow is an expansion of Youth EFNEP and a multidisciplinary effort between the health and nutrition and community garden/horticulture program areas of OSU Extension. This interactive, 6-week series focuses on core nutrition topics that are applicable to horticulture, gardening and environmental concepts. As part of this program, youth participants are exposed to the following subject areas: building a healthy base using MyPyramid for Kids and composition of soil; germination; identification of plant parts; proper seeding of a plant (through this program, youth have the opportunity to grow their own vegetables); fruits and vegetables; whole grains; protein sources; worm composting; hydration; recycling; food safety/hand washing; and good bugs versus bad bugs in the garden. The curriculum is adaptable to a variety of age groups and settings, although access to a garden site is paramount to the success of the program. Each session also includes 15 minutes of group physical activity and 15 minutes of garden exploration. A taste test of a fresh fruit or vegetable is also part of every lesson.

Participating Schools: Cuyahoga County districts, community sites, or early childcare sites serving limited-resource youth (at least 51% of the youth must qualify for free or reduced price school lunch/breakfast).

Ohio State Contact: Cuyahoga County, OSU Extension, cuya@ag.osu.edu.

ARTS

Central Ohio Flute Association Annual Competition

Students in grades 6 through young adults up to age 27 enter the Central Ohio Flute Association Competition to win cash prizes and the opportunity to perform in a master class with a guest artist at the annual flute festival. Information on upcoming competitions, which feature cash prizes with an age range expanded to 30, can be found at cofa.osu.edu/competition.html. \$30 application fee to enter the competition.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: School of Music, College of Arts and Sciences, 614-292-4618, cofa.osu.edu/competition.html.

Central Ohio Flute Association Annual Flute Festival

Students from all over Ohio are invited to attend the Central Ohio Flute Association Annual Flute Festival each spring, which includes master classes, flute choir performances, three flute competitions, and exhibits. The 2010 festival featured flutist/composer Robert Dick; students from grade 6 through college competed for cash prizes in the annual competition.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: School of Music, College of Arts and Sciences, 614-292-4618, cofa.osu.edu.

Department of Theatre Building Tours

The Department of Theatre offers tours of campus facilities with basic information about productions and department programs.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Department of Theatre, College of Arts and Sciences, 614-292-7258, theatre.osu.edu.

Department of Theatre Central Ohio Schools Tour

Ohio State students perform a play on the Ohio State campus and in schools in the central Ohio area schools during winter quarter. A graduate assistant prepares a study guide for the teachers and students and leads a discussion after each performance. The 2009/2010 play was *A Song for Coretta* by Pearl Cleage. The play served as a springboard to discuss the Civil Rights Movement. The production was presented to approximately 2,500 K-12 students. Each year, the plays chosen for the season vary and determine whether they are appropriate for students to attend.

Participating Schools: Fairfield County: Pickerington Local—Pickerington North High. Franklin County: Columbus City—Clinton Middle, Johnson Park Middle, Linden-McKinley STEM Academy; Dublin City—Dublin Scioto High. Reynoldsburg City—Baldwin Road Junior High; Upper Arlington City—Upper Arlington High.
Ohio State Contact: Department of Theatre, College of Arts and Sciences, 614-292-7258, theatre.osu.edu/tour.

Department of Theatre School Matinee and Preview Performances

The Department of Theatre offers matinee and preview performance at OSU that local area schools can attend. These are during the school day and give students the opportunity to see live theatre in a traditional setting (versus tours to schools). Teachers are asked to assess the performance both in terms of its artistic quality and in terms of its relation to current curriculum.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Department of Theatre, College of Arts and Sciences, 614-292-7258, theatre.osu.edu.

Digital Animation: A Technology Mentoring Program for Young Women

Every June, faculty, staff, and graduate students in the Advanced Computing Center for the Arts and Design conduct a summer camp that teaches eighth- and ninth-grade girls how to create computer-generated animation. For 2 weeks, the select group of young women with artistic potential works with mentors from arts and technology fields at Ohio State using problem-solving skills and collaborative learning to create digital animation projects. The program is intended to showcase innovative technology and introduce participants to careers in the arts. In June 2009, 11 young women from Columbus area middle and high schools were mentored by three women graduate students, one undergraduate and the director of ACCAD. The topic was digital artists as proponents of social change through their art and animation. Projects focused on creating 3D animation with Maya on the topic of Ohio prairies, their history, value and preservation needs. Participants visited The Ohio State University's Marion Prairie Nature Center as a basis for understanding prairies.

Participating Schools: Available only to certain districts/schools/youth.

Ohio State Contact: Advanced Computing Center for the Arts and Design, College of Arts and Sciences, 614-292-1053, womenandtech@accad.ohio-state.edu, accad.osu.edu/womenandtech/home.html.

Expanded Classroom

Expanded Classroom is a multidisciplinary learning program with several Ohio K-12 classrooms. Students visited the Wexner Center winter exhibitions, Children's International Film Festival, and/or the Children's International Performing Arts Series. They participated in interactive learning workshops with professional guest artists/educators.

Participating Schools: Franklin County: Columbus City—East Linden Elementary, Easthaven Elementary, Fair Alternative Elementary, Indianola Informal Alternative, Trevitt Elementary Weinland Park Elementary, West Broad Elementary, Walnut Ridge High; Worthington City—Colonial Hills Elementary; MOSAIC Program.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

International Performing Arts Series for Children

School groups visited the Wexner Center to see free school-day performances of the following shows: *Baabab* (Theatre Motus, Canada; coproduced with SO Company, Mali) and *The Tragical Life of Cheeseboy* (Adelaide, Australia).

Participating Schools: Franklin County: Columbus City—Dana Avenue Elementary, Deshler Elementary, Dominion Elementary, Trevitt Elementary, East Linden Elementary, Easthaven Elementary, Fair Alternative Elementary, Fairwood Alternative Elementary, Indianola Informal K-8, Livingston Elementary, Weinland Park Elementary, West Mound Elementary, Windsor STEM Academy Columbus Downtown High; independent: Columbus School for Girls.
Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

Morning String Student Workshop

Over 1,520 students in grades 4-8 throughout central Ohio have attended the Ohio State Morning String Student Workshop in the last 25 years. Parents have found it a great way to increase their children's interest and ability in playing string instruments. The workshop includes daily string instrumental playing skill development, chamber music, large orchestra experience, and recreation in the football stadium.

Participating Schools: Available to schools in central Ohio.
Ohio State Contact: School of Music, College of Arts and Sciences, 614-292-2336, music.osu.edu/node/121.

School of Music Celebration Concert

On December 5, 2008, students from elementary, middle, and high schools in Franklin County attended the morning performance of the popular School of Music Celebration Concert. Students were exposed to proper concert etiquette and learned about families of instruments and the pieces performed in the concert.

Participating Schools: Schools in Franklin County.
Ohio State Contact: School of Music, College of Arts and Sciences, 614-292-9926.

Urban Arts Space K-12 School Engagement

The OSU Urban Arts Space offers free tours and educational programming for K-12 students. K-12 School Tours are interactive, in-depth, tied in to the Ohio Academic Content Standards, and can include guided art making, writing exercises, and other interdisciplinary activities. Teachers receive preparatory educational materials to help make connections with their curriculum prior to the gallery visit. UAS has K-12 learning partnerships with various private and public academic institutions. These partnerships produce interdisciplinary projects and educational experiences as well as opportunities for community engagement. Over the course of multiple visits, students tour the gallery, participate in a hands-on activity, and practice critical analysis of artworks. In 2009-10 UAS deepened relationships with Columbus School for Girls and Calumet Christian School; offered a Tactile Color Workshop for Ohio School for the Blind students; began an arts exchange program for East High School visual and performing arts students; and hosted a workshop on theatre set design and production for area high school students and educators. Two high school interns created and organized a juried exhibition of works by high school artists, giving them the opportunity to showcase their artwork in a professional gallery setting.

Participating Schools: Franklin County: Columbus City—East High; Calumet Christian Elementary; Columbus School for Girls; Ohio School for the Blind.

Ohio State Contact: Urban Arts Space, College of Arts and Sciences, 614-292-8861, uaseducation@osu.edu, uas.osu.edu/programs/education.

Wexner Center Architecture Tours

School groups took interactive architecture tours of the Wexner Center building and gallery space. Students were introduced to concepts of space, geometry, and the history of the building and its importance to the Ohio State campus.

Participating Schools: Delaware County: Olentangy Local—Olentangy High. Franklin County: Columbus City—Briggs High, CCS Gifted Program; Westerville City.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

Urban Arts Space tour



Wexner Center Exhibitions Tours

School and community groups took tours of the Wexner Center and the following exhibitions: Catch Air: Robin Rhode; COOP HIMMELB(L)AU: Beyond the Blue; William Forsythe: Transfigurations; Luc Tuymans; Susan Philips: The Shortest Shadow; Harry Shearer: The Silent Echo Chamber; Alyson Shotz: Standing Wave; Hard Targets; Cyprien Gaillard: Disquieting Landscapes; Mark Bradford; Zoe Strass: Works for Columbus, OH.

Participating Schools: Cuyahoga County: Brightside Academy. Franklin County: Columbus Catholic Diocese—St. Mary's Elementary, Bishop Watterson High, Saint Frances DeSales High; Columbus City—Dominion Middle, Briggs High, Brookhaven High, West High; Dublin City—Dublin Coffman High; Gahanna-Jefferson City—Gahanna Lincoln High; Worthington City—Phoenix Middle, Worthingway Middle; independent/charter: Graham School, Jelly Bean Junction Learning Center, La Petite Academy, Metro School, MOSAIC Program, Wellington School.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

Wexner Center for the Arts Summer Youth Workshops

Weeklong (Monday-Friday), half-day workshops are offered for ages 6-14. Teen Arts Fusion workshops are for ages 15-18. Each course is developed especially for its age group and taught by practicing artist/educators (including M.F.A./Ph.D. grads and candidates in art, art education, art history, dance, theater, and architecture). Many classes emphasize cutting-edge technology or innovative interdisciplinary approaches.

Participating Schools: Available to any districts/schools/youth, **Ohio State Contact:** Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, www.wexarts.org/learn/for_families/index.php?eventid=3805.

Zoom: International Family Film Festival

During the Wexner Center's annual International Film Festival, elementary and middle schools students have the opportunity to view selections from the festival at special school screenings, introducing them to critically acclaimed films from around the globe. Past years' programs have included films from Iran, Spain, Germany, and Brazil. The films draw from the best in contemporary and classic cinema to represent a vast spectrum of world views and experiences.

Participating Schools: Delaware County: Village Academy. Franklin County: Columbus City—Easthaven Elementary, Indianola Informal Elementary, Fort Hayes High, Northland High; Hilliard City—Avery Elementary, Hilliard Davidson High; South-Western City—Central Crossing High; Westerville City—Hanby Arts Magnet Elementary; independent/charter: W.C. Cupe Preparatory, Wellington School. Knox County: Centerburg Local—Centerburg Middle. Madison County: London City. Home schools and community-based programs.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, wexarts.org/learn.

ATHLETICS

Learning in Fitness and Education through Sports (LiFE Sports)

Learning in Fitness and Education through Sports (LiFE Sports) is designed to foster social competence among youth through their involvement in sport, fitness, and educational activities. This youth development initiative is built upon a historical community outreach program operating at Ohio State (National Youth Sport Program). The program serves approximately 600 predominately urban and underserved youth from the greater Columbus area during a 4-week summer day camp. Campers participate in a variety of sport and education activities throughout each day, which are infused with curriculum targeting the development and enhancement of social competence (i.e., self-control, effort, teamwork, and social responsibility). Campers have the opportunity for daily interaction with Ohio State students, student-athletes, and teachers from the community; transportation to and from camp; and breakfast and lunch. Sports clinics are also provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites and the Ohio State University campus. The LiFE Sports team also partners with Undergraduate Admissions and First Year Experience, the P-12 Project and Economic Access Initiative to provide participants with college access and career exploration activities. The LiFE Sports program is supported in part by an Excellence in Engagement grant from the Office of University Outreach and Engagement.

Participating Schools: Youth in Franklin County.
Ohio State Contact: College of Social Work, 614-292-6934, www.osulifesports.org. Ohio State Partners: Department of Athletics, P-12 Project, Office of Academic Affairs; School of Physical Activities and Educational Services, College of Education and Human Ecology; Office of Undergraduate Admissions and First Year Experience, Economic Access Initiative, Office of Academic Affairs; Department of Recreational Sports, Office of Student Life. External Partners: Boys and Girls Club of Columbus.

Project KEY (Keep Engaging Youth)

Approximately 50 middle school students from Columbus City Schools visited Ohio State through the Project KEY program for Scarlet Carpet Day.

Participating Schools: Franklin County: Columbus City.
Ohio State Contact: P-12 Project. College of Education and Human Ecology. Ohio State Partners: Ohio State University Medical Center—Sports Medicine; Department of Athletics. BREAD (Building Responsibility, Equality and Dignity); Franklin County Juvenile Court; Alcohol, Drug, and Mental Health Board; Franklin County Children Services.

CAREER EXPLORATION AND DEVELOPMENT

4-H Career Quest

Three to four session series of instructional sessions dealing with formulating a career action plan, securing career planning information, and understanding dynamics of job search and workforce expectations. At John Adams High School, 63% of 73 students stated a career goal and 59% listed one or more steps they could take to move closer to that goal during 2010-11 school year. At the Cuyahoga County Juvenile Court Detention Center, 10 of the 28 participants completed the series during their time of residence at the facility.

Participating Schools: Cuyahoga County: Cleveland Metropolitan—John Adams High.

Ohio State Contact: Cuyahoga County OSU Extension, cuya@ag.osu.edu.

Airport Job Shadow

The staff of The Ohio State University Airport works closely with youth to provide them with a 1-day, up-close experience with various careers in aviation. Areas of interest include airport management, airport operations, flight training, and air traffic control.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.osuairport.org/Education/Shadow/.

Belmont County Career, Technology, and Safety Exploration Day

Nearly 1,300 elementary students from throughout Belmont County participated in Belmont County Career, Technology, and Safety Exploration Day. A total of 75 local business and community leaders brought vehicles of all shapes and sizes to the county fairgrounds and demonstrated the use of these vehicles for the young participants. The youth learned about career choices, safety aspects of careers and the vehicles used, and technology in relationship to careers in the local communities.

Participating Schools: Schools in Belmont County
Ohio State Contact: Belmont County OSU Extension, belmont.osu.edu.

Camp Engineer

Camp Engineer is a 1-week day camp that seeks to provide middle school girls with a more in-depth exposure, understanding, and appreciation of engineering. During the week, students work on design projects as well as participate in engineering department tours and workshops that help introduce them to specific engineering disciplines. This program is open only to the middle school participants of the Columbus City Schools' Young Women's Empowerment Conference.

Participating Schools: Franklin County: Columbus City
Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-7329, wie.osu.edu/content/other-area-outreach-events.

College Caravan/Northeast Ohio Council for Higher Education Partnership

In the fall of 2009, 4-H in Cuyahoga County used information and materials from the program as part of a partnership with the Northeast Ohio Council for Higher Education (NOCHE) to highlight opportunities related to green careers in conjunction with their fall College Caravan program. Program consisted of an educational display highlighting alternate forms of energy (solar, wind, geothermal) and models of energy systems using these principles. Students received a fact sheet highlighting range of career opportunities emerging with green careers and a word search puzzle to help familiarize them with key concepts and career possibilities. Visits to each school lasted approximately 60 to 90 minutes. Approximately 350 youth took part at the 10 sites. Information presented was regarded by NOCHE to be of significant value to participants. The program led to additional career programming conducted at two participating schools in second half of 2010 school year, which involved an additional 100 youth.

Participating Schools: Cuyahoga County: Cleveland Metropolitan—Carl F. Schuler High, Ginn Academy of Glenville High School, Garrett Morgan School of Science, Max Hayes Vocational High, James Ford Rhodes High, Jane Addams Business Careers Center, John F. Kennedy High, John Marshall High, Whitney Young High; Warrensville Heights City—Warrensville Heights High
Ohio State Contact: Cuyahoga County OSU Extension, 216-429-8200, Northeast Ohio Council for Higher Education.

CRIME Camp

The CRIME Summer Camp is an in-depth program for middle school students from around the country focusing on forensic archaeology and anthropology. Over the course of a week, students learn to recover forensic evidence and process a crime scene. Students participate in field and classroom instruction in excavation and forensic exploration, fingerprint analysis, bone analysis, crime-scene processing, and evidence collection and documentation. As in real life, students meet with crime-scene experts, including university police, entomologists, and forensic dog handlers. The project director has developed a model forensics curriculum for high school teachers across the country to educate a new generation of young students in the fields of forensic science, archaeology, and anthropology. The program is run through Columbus School for Girls summer programs but any students can participate.

Participating Schools: Franklin County: Columbus School for Girls. Up to 20 students can participate as part of the Great Days summer program.

Ohio State Contact: Department of Anthropology, College of Arts and Sciences, 614-361-0753. Ohio State Partners: OSU Police Department, Entomology Extension, Waterman Dairy Farms, Central Ohio Technical College.

Eighth-Grade Visit Day

As one of three stops on a day-long tour, Ohio State Marion hosted about 1,700 eighth-graders for a visit, lunch, and hands-on academic sessions. Students experienced a college campus and began to think about careers.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties

Ohio State Contact: Enrollment Management, Ohio State Marion, 740-725-6337.

Forensics in the Classroom

Forensics in the Classroom is a 1-week bridge program for middle and early high school students to learn basic math and science skills in an interactive environment through the lens of forensics. The program focus includes basic crime scene management, crime scene photography and mapping, forensic anthropology, blood spatter analysis, evidence collection, fingerprint analysis, ballistics/weapons/firearms evidence tying all of these elements together with a discussion of its application to the legal system.

Participating Schools: Available to any districts/schools/youth. 2009-10: Franklin County: Columbus City—Arts IMPACT Middle; Worthington City.

Ohio State Contact: Department of Anthropology, College of Arts and Sciences, 614-743-0378, www.pastfoundation.org/current-programs/forensics-in-the-classroom/. External Partners: PAST Foundation, I Know I Can.

Girls Discover...Engineering!

Girls Discover...Engineering! is a day-long program that takes place annually at COSI. Girls in grades 6-8 interact with female engineers and engineering undergraduate and graduate students to explore career opportunities in engineering. The 2009 program served over 300 middle school students. The participants took part in an engineering challenge, working in teams to solve a design problem, and attended workshops that introduced them to different areas within the field of engineering through interactive demonstrations and hands-on activities. Over 100 female engineering students from Ohio State volunteered at the event, serving as near-peer mentors for the middle school participants. The Ohio State Women in Engineering Program collaborated with COSI to organize both the female engineering student volunteers. \$40 registration fee.

Participating Schools: Only a limited number of districts/schools/youth can be served.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, www.cosi.org/educators/mentoring/girlsdiscover/. External Partner: COSI.

Heart School for Middle Schoolers

Middle school children from underrepresented in medicine groups (African American) were invited to the College of Medicine for an educational program on the heart. They were exposed to lectures and discussion on cardiac physiology, hands-on learning about cardiac angioplasty equipment, and were proctored in a hands-on experience dissecting cattle hearts.

Participating Schools: Franklin County: Columbus City, Gahanna-Jefferson City, Upper Arlington City.

Ohio State Contact: Davis Heart and Lung Research Institute, College of Medicine, 614-293-4967.

Integrated Biomedical Sciences Student Organization-W.C. Cupe Community Outreach Project (COP)

The Integrated Biomedical Science Graduate Program student organization developed a Community Outreach Program designed to interest middle school students in the sciences by performing basic experiments and introducing them to various career opportunities. With a focus on the life sciences, weekly hands-on participatory activities were designed to be aligned with Ohio Science Academic content standards. The second year of the program had a crime scene investigation (CSI) theme. Students received crime scene notebooks and worked in small groups to solve a mystery with new clues each week. The activity was designed to teach students the scientific process and observation methods.

Participating Schools: Franklin County: independent/charter—W. C. Cupe Middle.

Ohio State Contact: Physiology and Cell Biology, College of Medicine, 614-292-4706, medicine.osu.edu/biomed/ibso/article.cfm?id=2730.

Introduce a Girl to Engineering Day

The Ohio State Women in Engineering Program's 2010 Introduce a Girl to Engineering Day took place at the university's Columbus campus on Saturday, June 5, 2010. Approximately 100 girls in grades 3-6 attended the event, which introduced participants to the exciting world of engineering through fun, hands-on activities and conversations with female engineering students. As part of this event, the Women in Engineering Program also hosted concurrent sessions for participants' parents/guardians. An estimated 60 parents/guardians attended these sessions, which included presentations and a panel discussion with current female engineering students. A total of 55 female undergraduate and graduate engineering students enrolled in the Ohio State College of Engineering volunteered for the 2010 event. Volunteers helped with registration, led hands-on activities, served as panelists, chaperoned groups of participants, and so on. The Ohio State Women in Engineering Program's 2010 Introduce a Girl to Engineering Day @ Columbus School for Girls (CSG) took place on April 23 for CSG students in Grades 5 and 6. A total of 29 Ohio State female engineering undergraduate and graduate students served as volunteers at the event. In addition to leading the hands-on activities, these volunteers talked informally with the CSG students over lunch and participated in a panel discussion at the conclusion of the event.

Participating Schools: Only a limited number of districts/schools/youth can be served.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-pre-college-programs#Elem. External Partner: Shell.

My Cool Job

Mycooljob.org is a website designed for middle schoolers and early high school students. It gives them a taste of four major in-demand career fields: Engineering, Information Technology, Arts and Communication, and Health Sciences. Interviews and photos of professionals in these careers are paired with videos and interactive blogs. The project was funded by a grant through E-Tech, and the Columbus Dispatch contributes free job-related content from its pages.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: WOSU Public Media, Office of University Communications, 614-292-9678 ext 4-0884, mycooljob.org/.
External Partner: E-Tech.

National Groundhog Job Shadow Day

The National Groundhog Job Shadow Day exposes youth to workplaces, giving them fresh motivation and tangible reasons to excel in school and aspire to productive careers. The Office of Student Life NGJSD program facilitates career matches, linking Columbus City Schools students with Student Life associate vice presidents and departmental directors. Ohio State University Medical Center participates in this national event in order to increase students' awareness of career opportunities in health care. This program is an academically motivating activity designed to give students the unique opportunity of an up-close look at the world of work and provide the answer to the commonly asked question, Why do I have to learn this?

Participating Schools: Franklin County: Columbus City
Ohio State Contact: OSU Medical Center, 614-293-8357. Ohio State Partner: Office of Student Life.

Northwest Career Day

The 4-H Programs of Defiance, Fulton, Paulding, Henry, and Williams counties held a daylong Career Congress for the 4-H Programs of Defiance, Fulton, Paulding, Henry, and Williams counties held the Northwest Ohio 4-H Career Day for 37 seventh-grade 4-H students. 4-H Career Day is an active hands-on experience that gives young people the opportunity to make lifestyle and budget choices similar to those of an adult. The daylong program builds awareness of the connection between education, occupation, income and financial choices. Four county career centers collaborated with counties conducting Career Day and provided facilities and a computer lab for students to use career development software. Outcomes: 94.6% indicated an increase realization of the fact that it costs money to maintain a household; 89.2% indicated an increase realization that it costs to care for a child; 86.5% indicated how likely it is that they will make changes when it comes to having a plan for spending that includes both wants and needs; and 91.9% believed that participating in this program gave them a better idea of what is involved in earning, spending, and managing money.

Participating Schools: Available to 4-H in a five-county area (Defiance, Fulton, Henry, Paulding, Williams). Henry County: Napoleon Area City, Patrick Henry Local.

Ohio State Contact: OSU Extension, henry.osu.edu, fulton.osu.edu.

Ohio State Olentangy Eighth-Grade Rock Star Invasion

200 eighth-grade students from Olentangy Local Schools visited Ohio State to participate in hands-on science activities that review their eighth-grade science curriculum. Students visited Orton Geology Museum and the Spitz Planetarium. The Office of Undergraduate Admissions and First Year Experience also took the students on a campus tour.

Participating Schools: Delaware County: Olentangy Local.
Ohio State Contact: P-12 Project, College of Education and Human Ecology, 614-688-0474. Ohio State Partner: Office of Undergraduate Admissions and First Year Experience.

Organization of Black Aviation Professionals Aviation Career Education (ACE) Camp

A collaborative program between The Ohio State University Airport and the Organization of Black Airline Pilots (OBAP) allows youth to experience through a first-hand introduction to flight. Free plane rides included.

Participating Schools: Available to any districts/schools/youth
Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.obap.org/programs.

Refugee College and Career Readiness Program

Refugee youth participate in after-school tutoring programs and work with a mentor to explore careers and educational opportunities and create a plan to achieve their goals. Field trips to post-secondary educational and training institutions are also provided.

Participating Schools: Cuyahoga County: Cleveland Metropolitan—Joseph M. Gallagher Elementary, Lincoln-West High, Thomas Jefferson Elementary.
Ohio State Contact: Cuyahoga County, OSU Extension, cuya@ag.osu.edu.

So You Want to Be A Vet?

This interactive website is designed to foster interest in veterinary medicine by letting users become familiar with what a veterinarian does, the examination process, different businesses that employ veterinarians, and animals and anatomy. The site includes hands-on activities for students and tools for K-12 science teachers that meet the Benchmarks and Indicators by Standards of two of the six standards of the Ohio's Academic Content Standards.

Participating Schools: Available to all districts/schools/youth in Ohio.
Ohio State Contact: College of Veterinary Medicine, vet.osu.edu/BeAVet.htm.

WiE GROW

Hosted by the Women in Engineering Program at The Ohio State University and made possible through the generous support of The Scotts Miracle-Gro Company, WiE GROW is a 5-day, nonresidential summer program designed to introduce 35 8th grade girls to the exciting world of engineering and to ignite their interest in an engineering-related career. Participants were introduced to engineering through a variety of hands-on activities organized by various departments within the College of Engineering. They also had the opportunity to visit Nestles and Scotts Miracle-Gro to learn what an engineer does on a day-to-day basis. Nonrefundable \$25 application fee, and a \$295 participation fee if accepted to the program. Scholarships are available.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-grow. Ohio State Partners: Mechanical Engineering; Aerospace Engineering; Materials Science and Engineering; Industrial and Systems Engineering; Chemical Engineering; Electrical and Computer Engineering and Environmental Engineering. External Partner: Scotts Miracle-Gro Company.

Women in Engineering Classroom Visits Program

The Women in Engineering Program (WiE) visited four different schools and homeschool groups as part of the 2009-2010 WiE Classroom Visits Program, reaching students in grades 1-12 during 8 visits. During these visits, WiE's Assistant Director for Outreach gave an age-appropriate introduction to the field of engineering and also talked with students about the opportunities available to engineering undergraduates at Ohio State. The majority of these visits concluded with a fun, hands-on activity designed to introduce the students to specific engineering areas. To provide a near-peer perspective on the importance of engineering related careers, both male and female undergraduate engineering students were invited to participate in these visits whenever possible.

Participating Schools: Delaware County: Olentangy Local—Tyler Run Elementary, Orange High. Franklin County: Columbus Catholic Diocese—Bishop Hartley High; Dublin City—Willard Grizzell Middle; Westerville City—Longfellow Elementary; Worthington City—Colonial Hills Elementary. Licking County: Granville Exempted Village.
Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-pre-college-programs#All.



Girls participating in WiE GROW. Photo courtesy of Women in Engineering.

Young Scholars Program

The Ohio State University Office of Minority Affairs Young Scholars Program is a comprehensive precollegiate and collegiate program designed to prepare students for entry into Ohio State. Founded in 1988, YSP annually identifies 120 academically talented first generation college students from economically challenged backgrounds. The program inducts students at the end of their sixth-grade year and undertakes programs to enhance the academic, personal, and career development of scholars. In particular, YSP seeks to increase the number of African American, American Indian, Appalachian, Asian/Pacific Islander, and Latino/Hispanic students seeking and earning college degrees. A statewide program, YSP serves up to 720 precollegiate students and is a collaborative effort between The Ohio State University and Ohio's nine largest urban school districts. Upon completion of the precollegiate program, scholars are admitted to Ohio State. More than 400 scholars are currently enrolled at the university.

Participating Schools: Cuyahoga County: Cleveland Municipal; Franklin County: Columbus City; Hamilton County: Cincinnati Public; Lorain County: Lorain City; Lucas County: Toledo City; Mahoning County: Youngstown City; Montgomery County: Dayton City; Stark County: Canton City; Summit County: Akron City.

Ohio State Contact: Young Scholars Program, Office of Minority Affairs, 614-292-4884, oma.osu.edu/current-students/young-scholars-program/.

Alternative Spring Break: Adams, Brown, and Vinton Counties

Sponsored by the Economic Access Initiative and University Housing, Ohio State students used their spring break to bring the message of access to higher education to Adams, Brown, and Vinton counties. Students learned about this vital social and economic issue from the perspective of an access advocate with over 30 years of experience in the field. With their spring break advisor, students worked onsite with elementary, middle, and high school students in these rural counties to provide both inspiration and college planning information. They started the week with an orientation given by the OSU Extension Educator in Brown County and GearUp Director-West Union. They met with the director of the Economic Access Initiative and local community leaders to prepare for their week of community-based work. The Ohio State students spent the week in area schools, working with youth to help them aspire to go to college and to learn more about making choices that would make college a reality. The students also conducted a workshop for parents on access issues.

Participating Schools: Schools in Adams, Brown, and Vinton counties.

Ohio State Contact: University Housing, Office of Student Life, 614-688-7744. Ohio State Partners: Office of Academic Affairs/Economic Access Initiative, OSU Extension.

Baseball Day

The Ohio State University partners with Columbus City Schools to promote higher education aspiration and access. Each year, Baseball Day brings more than 3,000 sixth-grade students and staff from the Columbus City Schools to campus for an educational pep rally followed by a Buckeye baseball game. In its fourth season, the program is designed to show young students that college can be a real possibility in their future and inspire them to stay in school in order to achieve this goal. This program has become extremely useful in building urban students' knowledge and opportunity to excel in school. Students must maintain a 95% attendance rate between January and May, have no suspensions, and complete all portions of the Sixth-Grade Achievement Tests to be eligible to attend. If they have three discipline referrals (three strikes), they are also out. Baseball Day is an integral part of the Columbus City Schools district plan to increase graduation rates. Since 2004, graduation rates have increased from 60% to 72.9%. In May 2010, more than 2,500 sixth-graders from 30 Columbus City Schools visited campus to enjoy an educational pep rally and baseball game. The children were welcomed to the Schottenstein Center by the Ohio State cheerleaders and pep band and heard motivational messages from Buckeye football player and NFL pick Cameron Heyward and Danielle Orr, a graduate of CCS. They also learned about healthy lifestyles from a nutritionist and enjoyed a science program by COSI staff. Before the game, students were treated to lunch, courtesy of Children's Hunger Alliance.

COLLEGE ACCESS AND ASPIRATION

Access Ambassadors and Mentoring Projects

Wearing KnowHow2Go? T-shirts, Ohio State students explain to younger students what it's like to go to college and how they can work to get there, at Community Commitment Day and other events.

Participating Schools: Franklin County: South-Western City—Franklin Heights High.

Ohio State Contact: Economic Access Initiative, Office of Enrollment Services, 614-292-3343, www.osu.edu/access.

Access Tours

Led by Ohio State students, Access Tours are designed to provide early college exposure to middle school students from underserved communities. This campus visit experience follows a presentation that helps students learn about the benefits of preparing for college early. Guides promote the importance of higher education and serve as role models and representatives of the many faces of college students to the youth visiting campus. Available to any districts/schools/youth, Access tours serve low-income, minority, and/or first generation students in 5th-8th grades.

Participating Schools: Cuyahoga County: Cleveland Municipal—Bolton Elementary, Denison Elementary; Cleveland Entrepreneurship Middle. Delaware County: Olentangy Local. Franklin County: Columbus City—Forest Park Elementary; Gahanna-Jefferson Local; Groveport Madison Local; independent/charter—Horizon Science Academy; KIPP Journey Academy; Zenith Academy. Montgomery County: Dayton City. Muskingum County: Maysville Local—Maysville Middle. Pickaway County: Teays Valley Local.

Ohio State Contact: Early College Outreach, Office of Undergraduate Admissions and First Year Experience, 614-247-1648, accesstours@osu.edu.



Baseball Day science demo by COSI staff (left) gets a reaction from Columbus middle schoolers (right).
Photos: Cindy Overly.

Blueprint:College 2.0

Ohio State University's Blueprint:College 2.0, in partnership with I Know I Can, provides bimonthly workshops that serve as booster shots or reinforcement for middle school families who graduated from the Blueprint:College program, helping them stay engaged in the college planning process. Blueprint:College 2.0 also serves as an initial introduction to the importance of planning for college for families not offered Blueprint:College during the elementary school years. In the program's pilot year in 2009-2010, more

than 200 CCS families (400+ adolescents) participated in Blueprint:College 2.0. The program focuses on the importance of parental involvement in setting college aspirations as well as provides an overview of the types of higher education institutions and degrees available. It also focuses on specific strategies to help families get and keep their students on an academic track that will lead to college admissions and provides information on how to financially plan for college. Like Blueprint:College, Blueprint:College 2.0 provides separate, parallel workshops for parents and middle school students and includes dinner, child care, and transportation.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Early College Outreach, Office of Undergraduate Admissions and First Year Experience/Office of Academic Affairs, 614-247-7024, www.iknowican.org. Ohio State Partner: Office of Academic Affairs, Economic Access Initiative. External Partner: I Know I Can.

Breakfast of Science Champions

The Breakfast of Science Champions introduces middle school students to scientific careers and college opportunities by bringing a small group of seventh and eighth graders from a number of different schools to explore the Ohio State campus. In the past, campus visits are offered on one day in November and one day in February. Students meet faculty and graduate students from the sciences while enjoying a continental breakfast, tour labs, participate in demonstrations, and learn about science careers.

Participating Schools: Cuyahoga County: Independence Local—Independence Middle. Franklin County: Columbus City—Arts IMPACT Middle, Champion Middle, Columbus Africentric Early College, Ecole Kenwood French Immersion, Franklin Alternative Middle, Monroe Alternative Middle, Southmoor Middle, Wedgewood Middle; private—Calumet Christian School. Scioto County: Washington-Nile Local—Portsmouth West Middle. Summit County: Manchester Local—Manchester Middle.

Ohio State Contact: Office of Academic Affairs, 614-688-5557, ascommunitypartnerships.osu.edu/ScienceChampions.cfm. Ohio State Partners: Center for Emergent Materials, Byrd Polar Research Center, Biological Sciences Greenhouse, Department of Human Nutrition, Department of Mechanical and Aeronautical Engineering, N.E.U.R.O. External Partner: Middle School Gifted and Talented Program, Columbus City Schools.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Department of Athletics, 614-688-3264, p12.osu.edu/baseballday.php; www.osu.edu/cpsday/. Ohio State Partners: P-12 Project, Office of Academic Affairs; Office of Undergraduate Admissions and First Year Experience; Economic Access Initiative, Office of Academic Affairs; Office of University Communications; Army & Navy ROTC, Office of Academic Affairs; Transportation & Parking, Office of Business and Finance; Schottenstein Center, Office of the Senior VP Administration & Planning; The Ohio State University Cheerleaders; Ohio Union, Office of Student Life; Colleges of the Arts and Sciences; Diamond Club; and numerous Ohio State student athletes and other students. External Partners: Columbus State Community College, Children's Hunger Alliance, PaigeTech.

Be Ready for College

The Office of Undergraduate Admissions and First-Year Experience coordinates the activities of the Central Ohio Consortium for Early College Outreach (a partnership among Ohio State, Capital University, Columbus State Community College, Ohio Dominican University, Otterbein College, and Ohio Wesleyan). The consortium has developed an interactive presentation for parents of middle school children titled Be Ready for College.

Participating Schools: Schools in Franklin County.

Ohio State Contact: Office of Undergraduate Admissions and First Year Experience, 614-688-4488, www.osu.edu/access/teacher_resources.php.

College Access Group Tours

The Office of Undergraduate Admissions and First-Year Experience offers visit programming to expose students to a college campus early. The access visit is aimed at middle school-aged students and consists of a motivational think college now message from an admissions representative followed by a campus tour. Groups have visited from all parts of Ohio, as well as some out-of-state schools.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of Undergraduate Admissions and First Year Experience , 614-292-3980, accesstours@osu.edu, campusvisit.osu.edu/Reservation/groupvisitoptions.html.

College Preparation Presentations

Undergraduate Admissions and First-Year Experience staff have visited schools across central Ohio to present programs describing the steps to college. Aimed at students in grades 5-10, these presentations have occurred both during and after school. Parents, teachers, and counselors have also participated.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Office of Undergraduate Admissions and First Year Experience , 614-292-3980, undergrad.osu.edu/visit.html.

County Model for College Access

This program draws on the expertise of the Economic Access Initiative, the College of Education and Human Ecology, Hardin County Extension, the OSU Extension Center in Wooster, the Ohio College Assistance Network, and Know How to Go, the national public service campaign targeted to low income student to develop a rural county model for increased college access among students otherwise not likely to attend college. Hardin County was chosen because it has a low college-going rate, a low percentage of college graduates, and Extension's existing Hardin County Youth Leadership Program. High school sophomores participating in the program were trained to deliver the Know How2Go message to fourth through eighth graders in the six county school districts. The presentations engaged middle school students in thinking about preparation for postsecondary education. A side benefit was that the sophomore leaders increased their knowledge about and commitment to their own college-going plans. The partnership is planning to expand the model into more rural counties.

Participating Schools: Hardin County: Ada Exempted Village, Hardin Northern Local, Kenton City, Ridgmont Local, Riverdale Local, Upper Scioto Valley Local.

Ohio State Contact: Economic Access Initiative, Office of Enrollment Services, OSU Extension, College of Education and Human Ecology, Ohio College Assistance Network.

Eighth-Grade Visit Day

As one of three stops on a day-long tour, Ohio State Marion hosted about 1,700 eighth-graders for a visit, lunch, and hands-on academic sessions. Students experienced a college campus and began to think about careers.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Enrollment Management, Ohio State Marion, 740-725-6337.

GEAR UP (Gaining Early Awareness and Readiness for Undergraduate Programs)

OSU Extension Brown County, through their partnership with the Southern Ohio Center of Excellence at Southern State Community College, has implemented a 6-year grant for college access called GEAR UP. In 2009 the program reached over 576 students at West Union High School. The GEAR UP program is one of the contributing factors for the school's excellent rating for a second year. This rating means that the students have met or exceeded academic and attendance measures. The GEAR UP program reached an additional 500 students at North Adams, Eastern, and Peebles high schools. 300 Brown County students learned math and physics concepts through a robotics education program taught in the classroom and at 4-H camp. Three students placed second in the nation at the National Robotics Challenge. The students were part of the robotics education project offered through the GEAR UP program.

Participating Schools: Adams County: Adams County/Ohio Valley Local—North Adams High, Peebles High, West Union High. Brown County: Eastern Local—Eastern High.

Ohio State Contact: Brown County, OSU Extension, 937-378-6716.

I CAN Center of Excellence

The I CAN Center of Excellence is designed to motivate students of all ages to view higher education as necessary, desirable, and obtainable. The college access program is available in the seven-county region served by Ohio State's Marion campus and Marion Technical College. Activities include the book *Happily Ever After* for elementary students, curriculum materials, mini-grants to teachers, Reading Day, Eighth-Grade Tours, speakers, mentors in high schools and youth programs, High School Leadership Program, assistance with FAFSA and college application, college tours, and Last Dollar Grants. Supported by Ohio's College Access Network, the center partnered with the Marion Area Tech-Prep Consortium, local school districts, the Ohio Department of Job and Family Services, United Way, and local chambers of commerce. More than 150 students have received Last Dollar Grant scholarships and hundreds more have received assistance in getting to college. The program's success is evidenced by above-average increases in college enrollment and increased membership in college advantage programs in the seven counties served.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Office of Student Life, Ohio State Marion, 740-725-6273, osumarion.osu.edu/ICAN/index.html.

Ohio State Alumni Association School Outreach

Alumni Association president/CEO Archie Griffin and staff participated in school activities designed to encourage college attendance. These included visits to schools to speak about going to college, participation in the Columbus City Schools Baseball Day at Ohio State, and assistance with a visit by students from the Knowledge is Power (KIPP) Journey Academy. In addition, hundreds of alumni across the country serve school-age youth each year through regional alumni clubs. Projects include assistance to Boys and Girls Clubs, clothing and supplies donations made to local schools, and collection of care packages for school-age children.

Participating Schools: Franklin County: Columbus City; independent/charter—KIPP Journey Academy. Licking County: Licking Heights Local—Licking Heights West.

Ohio State Contact: Ohio State Alumni Association, 800-862-5827.

Ohio State Olentangy Eighth-Grade Rock Star Invasion

200 eighth-grade students from Olentangy Local Schools visited Ohio State to participate in hands-on science activities that review their eighth-grade science curriculum. Students visited Orton Geology Museum and the Spitz Planetarium. The Office of Undergraduate Admissions and First Year Experience also took the students on a campus tour.

Participating Schools: Delaware County: Olentangy Local.

Ohio State Contact: P-12 Project, College of Education and Human Ecology, 614-688-0474. Ohio State Partner: Office of Undergraduate Admissions and First Year Experience.

Ohio State/School Partnerships

The Ohio State University P-12 Project served as sponsors for elementary, middle, and high school classrooms by sending Ohio State information and school spirit items for the students. The schools are all participating in programs to help students realize their potential to attend college someday.

Participating Schools: Allen County: Bath Local—Bath Middle. Ashtabula County: Pymatuning Valley Local—Pymatuning Valley High. Cuyahoga County: Mayfield City—Mayfield Center Elementary. Hamilton County: Hamilton City—Hamilton Freshman School. Montgomery County: Dayton City—Stivers School for the Arts. Scioto County: Northwest Local Schools. out of state: AVID Program, Jacksonville, NC; John D. Philbrick Elementary, Roslindale, MA; McCoy Elementary, Carrollton, TX; Vista Middle, Red Bluff, CA; Winston Campus Elementary, Palatine, IL; Elmhurst Community Prep, Oakland, CA; Eleanor Roosevelt High, Corona, CA; Gibbs High, St. Petersburg, FL; Francisco Sepulveda Middle, North Hills, CA; Holmes International Middle/Humanities Magnet, Northridge, CA; ESTEM Charter Middle School, Little Rock, AR; Highland Elementary, Skokie, IL.

Ohio State Contact: P-12 Project, College of Education and Human Ecology, 614-688-0474.

Project KEY (Keep Engaging Youth)

Approximately 50 middle school students from Columbus City Schools visited Ohio State through the Project KEY program for Scarlet Carpet Day.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: P-12 Project, College of Education and Human Ecology. Ohio State Partners: Ohio State University Medical Center—Sports Medicine; Department of Athletics, BREAD (Building Responsibility, Equality and Dignity); Franklin County Juvenile Court; Alcohol, Drug, and Mental Health Board; Franklin County Children Services.

Stadium Scholarship Program-I Know I Can!

Ohio State students worked with high school students to help them with their transition to college and to achieve their endeavors to matriculate to an institution of higher learning.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Residence Life, Office of Student Life, 614-247-4664. Ohio State Partner: Economic Access Initiative/Office of Academic Affairs. External Partner: I Know I Can.

WiE GROW

Hosted by the Women in Engineering Program at The Ohio State University and made possible through the generous support of The Scotts Miracle-Gro Company, WiE GROW is a 5-day, nonresidential summer program designed to introduce 35 8th grade girls to the exciting world of engineering and to ignite their interest in an engineering-related career. Participants were introduced to engineering through a variety of hands-on activities organized by various departments within the College of Engineering. They also had the opportunity to visit Nestles and Scotts Miracle-Gro to learn what an engineer does on a day-to-day basis. The program has a nonrefundable \$25 application fee, and a \$295 participation fee if accepted to the program. Scholarships are available.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-grow. Ohio State Partners: Mechanical Engineering; Aerospace Engineering; Materials Science and Engineering; Industrial and Systems Engineering; Chemical Engineering; Electrical and Computer Engineering and Environmental Engineering. External Partner: Scotts Miracle-Gro Company.

Young Scholars Program

The Ohio State University Office of Minority Affairs Young Scholars Program is a comprehensive precollegiate and collegiate program designed to prepare students for entry into Ohio State. Founded in 1988, YSP annually identifies 120 academically talented first generation college students from economically challenged backgrounds. The program inducts students at the end of their sixth-grade year and undertakes programs to enhance the academic, personal, and career development of scholars. In particular, YSP seeks to increase the number of African American, American Indian, Appalachian, Asian/Pacific Islander, and Latino/Hispanic students seeking and earning college degrees. A state-wide program, YSP serves up to 720 precollegiate students and is a collaborative effort between The Ohio State University and Ohio's nine largest urban school districts. Upon completion of the precollegiate program, scholars are admitted to Ohio State. More than 400 scholars are currently enrolled at the university.

Participating Schools: Cuyahoga County: Cleveland Municipal; Franklin County: Columbus City; Hamilton County: Cincinnati Public; Lorain County: Lorain City; Lucas County: Toledo City; Mahoning County: Youngstown City; Montgomery County: Dayton City; Stark County: Canton City; Summit County: Akron City.

Ohio State Contact: Young Scholars Program, Office of Minority Affairs, 614-292-4884, oma.osu.edu/current-students/young-scholars-program/.

Girls Circle

The Girls Circle Project is a service-based, year-long immersion project that trains college women to become Girls Circle facilitators and run Girls Circles in Columbus-area schools or agencies with middle or high school-aged girls. This project gives college women the opportunity to grow, learn, and challenge themselves through training, facilitation, and experiences working with adolescent and teenage girls. The Girls Circle model, a structured support group for girls from 9-18 years, integrates relational theory, resiliency practices, and skills training in a specific format designed to increase positive connection, personal and collective strengths, and competence in girls. It aims to counteract social and interpersonal forces that impede girls' growth and development by promoting an emotionally safe setting and structure within which girls can develop caring relationships and use authentic voices. The circles have a leader as well as a well-tested, weekly curriculum and evaluation methodology. The focus is on discussion, decision-making skills and critical thinking. In the 2009-10 academic year 35 women ran 15 circles in Columbus-area schools and organization, serving approximately 160 girls.

Participating Schools: Franklin County: Columbus City—Arlington Park Elementary, Indianola Informal K-8, Parkmoor Elementary; Grandview Heights City—Grandview Heights High; New Albany-Plain Local—New Albany Middle School; Reynoldsburg City—Waggoner Road Middle; independent/charter—W.C. Cupe Community, Wellington School, Pschtec High.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794, www.girlscircle.com. Ohio State Partner: Office of Academic Affairs/Economic Access Initiative. External Partners: YWCA, Columbus Housing Partnership.

SERV (Students Engaged in Responsible Volunteering) Team

Two Ohio State SERV Team students are responsible for the social justice topic of education and literacy. As part of this responsibility, they commit to offering small-scale service opportunities each quarter in agencies and schools related to access to education and literacy development. These ongoing projects vary in timing and duration. Interested Columbus City Schools can contact the SERV Team for more information or to establish a project.

Participating Schools: Franklin County: Columbus City.
Ohio State Contact: SERV Team/Ohio Union, Office of Student Life, 614-292-SERV.

COMMUNITY SERVICE/SERVICE-LEARNING

4-H CLOVER (Catch Lots of Very Exciting Reading)

CLOVER is a 4-H literacy/reading program designed to encourage 4-H members of all ages to enjoy reading, engage in community service/volunteering, and gain knowledge related to their selected project areas. Stark County 4-H youth (ages 5-18) are eligible to enroll. Youth earn points by reading age/ability appropriate books, magazine articles, and textbook chapters on their project area(s) and their 4-H project resource manual. Reading-related community service also earns points.

Participating Schools: Schools in Stark County.

Ohio State Contact: Stark County, OSU Extension, 4-H Youth Development, starkcountyjrfair4h.com.

Serving with Honor

Serving with Honor, an Honors & Scholars service organization that provides students with opportunities to serve the community in ways that are grounded in social justice issues. The Children-Centered Committee focuses on helping younger students understand the importance going to college and realizing their potential. Through a partnership with the W.C. Cupe Charter School in east Columbus, Ohio State students work with children in grades 1-8 on such projects as 100th Day, You Can Go To College Days, and Pen Pals. They also collected and donated over 400 items for the W.C. Cupe School through the Giving Tree project.

Participating Schools: Franklin County: independent/charter—W.C. Cupe Community.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794, servingwithhonor.org.ohio-state.edu/children_centered_committee.php. Ohio State Partner: Office of Academic Affairs/Economic Access Initiative.

COUNSELING/PSYCHOLOGY

Department of Theatre Central Ohio Schools Tour

Ohio State students perform a play on the Ohio State campus and in schools in the central Ohio area schools during winter quarter. A graduate assistant prepares a study guide for the teachers and students and leads a discussion after each performance. The 2009/2010 play was *A Song for Coretta* by Pearl Cleage. The play served as a springboard to discuss the Civil Rights Movement. The production was presented to approximately 2,500 K-12 students.

Participating Schools: Fairfield County: Pickerington Local—Pickerington North High. Franklin County: Columbus City—Clinton Middle, Johnson Park Middle, Linden-McKinley STEM Academy; Dublin City—Dublin Scioto High. Reynoldsburg City—Baldwin Road Junior High; Upper Arlington City—Upper Arlington High.

Ohio State Contact: Department of Theatre, College of Arts and Sciences, 614-292-7258, theatre.osu.edu/tour. Ohio State Partner: Department of English.

Dispute Resolution and Youth

The Dispute Resolution and Youth Program sends law students into Columbus elementary and middle schools to teach children mediation, negotiation, and general conflict management skills. The main goal of the program is to show youth peaceful and constructive ways to resolve conflicts, including talking, listening, understanding, and collective problem solving.

Participating Schools: Franklin County: Columbus City—Arlington Park Elementary, Broadleigh Elementary, Hamilton STEM Academy, Parkmoor Elementary, Medina Middle; independent/charter—Kipp Journey Academy

Ohio State Contact: Moritz College of Law, 614-688-4918, moritzlaw.osu.edu/students/groups.php?ID=14. External Partner: Squire, Sanders and Dempsey LLP.

Real Colors

Real Colors is a curriculum for teens and adults that identifies individual personality types. The curriculum includes learning activities that help participants understand how personality affects relationships, communication, and their skills and abilities.

Participating Schools: Schools in Muskingum County.

Ohio State Contact: 4-H Youth Development, OSU Extension, 740-454-0144, muskingum.osu.edu.

DISABILITIES

4-H for Youth with Disabilities

The purpose of the 4-H at Christie Lane program in Huron County is to provide 4-H youth development experiences to developmentally disadvantaged youth. A majority of these students would not be able to participate in 4-H without this special in-school program. Students learn club procedures, practice the pledges, and experience a wide variety of educational programs and activities. Shelby County Extension has a successful outreach to multi-disabled youth at Sidney Middle School. This in-school 4-H club, started in 2009 by two teachers, has received two grants to grow its program and its students. The program gives students opportunities to belong to a club, master project and life skills, practice independence by electing officers and making decisions, and practice generosity through service. This program, now entering its third year, is an example of a successful collaboration between 4-H Youth Development, Family and Consumer Sciences educators with OSU Extension and the teachers at the Sidney City Schools. Goals for the in-school 4-H club for multi-disabled students, are to increase students' independence through the development and practice of life skills; to supplement their school curriculum by providing additional alternate assessment measures; and to impart students with a sense of belonging as they become involved in a national youth organization. The Shelby Shamrocks 4-H Club is led by two classroom teachers, both with prior 4-H experience and both very interested in continuing to integrate 4-H into their students' curriculum. These 4-H club members/students practice the 4-H pledge at speech therapy; connect club officer elections with their social study lessons; apply math skills when measuring fabric for scarves and tote-bags; exercise reading skills when reading the pledge and project book activities; and, so forth. Moreover, club members add to the community access portion of their portfolios as they participate in community service projects or walk to the nearby OSU Extension Office for project evaluation. Funding from the Wadlington Memorial Endowment and other Ohio 4-H Foundation sources over the past two years has allowed these teachers to acquire classroom and 4-H project resources to enable their students to complete several 4-H projects. In 2010, funding was used to purchase an accessible light garden for indoor classroom use. Opportunities to garden supplemented the students' science lessons and provided opportunities to grow their skills right along with the flowers and vegetables. In 2009, funds were used to purchase Communicate:SymWriter software, which permitted teachers to translate 4-H project materials into symbols for use with non- or low-level readers. In addition, a digital camera was purchased, which is used to photograph and document 4-H project work and activities for each students' portfolio. These portfolios turn out to be and are the alternate

assessment tool used by the Ohio Department of Education in lieu of standardized testing to measure the progress of multi-disabled students. The in-school 4-H club, started in 2009 by two teachers, has received two grants to grow its program and its students. The program gives students opportunities to belong to a club, master project and life skills, practice independence by electing officers and making decisions, and practice generosity through service.

Participating Schools: Huron County: Christie Lane MR/DD School. Shelby County: Sidney City—Sidney Middle.
Ohio State Contact: 4-H Youth Development, OSU Extension.

Adapted Recreational Sports Programs

Recreational Sports offers adapted swimming and gymnastics for children with disabilities, ages 4-16; 1 lesson a week for 7 weeks per quarter. Program staff participated in Special Education Outreach Fairs in the Dublin and South-Western city school districts to showcase adapted recreation programs to parents.

Participating Schools: Available to all districts/schools/youth in Ohio.
Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3693, www.recsports.osu.edu/community-programs.

ENGINEERING

4-H Robotics

The 4-H Robotics Program provided a hands-on approach to science, engineering, and technology learning with opportunities that helped youth learn about robotics programming.

Participating Schools: Available to all districts/schools/youth in Ohio.
Ohio State Contact: OSU Extension, 614-247-8150, www.ohio4h.org/robotics/.

Airport Tours

Interactive tours of The Ohio State University Airport offer a behind-the-scenes experience that introduces youth to airport operations, flight training, and aircraft maintenance. Students learn about basic aerodynamics, parts of the plane and the airport's importance in the community. In 2009, 1,200 students in grades K-12 toured the airport.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.osuairport.org/Education/Tours/.

Camp Engineer

Camp Engineer is a 1-week day camp that seeks to provide middle school girls with a more in-depth exposure, understanding, and appreciation of engineering. During the week, students work on design projects as well as participate in engineering department tours and workshops that help introduce them to specific engineering disciplines. This program is open only to the middle school participants of the Columbus City Schools' Young Women's Empowerment Conference.

Participating Schools: Franklin County: Columbus City. Available only to students entering grades 7-9.
Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-7329, wie.osu.edu/content/other-area-outreach-events.

Girls Discover...Engineering!

Girls Discover...Engineering! is a day-long program that takes place annually at COSI. Girls in grades 6-8 interact with female engineers and engineering undergraduate and graduate students to explore career opportunities in engineering. The 2009 program served over 300 middle school students. The participants took part in an engineering challenge, working in teams to solve a design problem, and attended workshops that introduced them to different areas within the field of engineering through interactive demonstrations and hands-on activities. Over 100 female engineering students from Ohio State volunteered at the event, serving as near-peer mentors for the middle school participants. The Ohio State Women in Engineering Program collaborated with COSI to organize both the female engineering student volunteers.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, www.cosi.org/educators/mentoring/girlsdiscover/. External Partner: COSI.

Photo courtesy of Women in Engineering.



Introduce a Girl to Engineering Day

The Ohio State Women in Engineering Program's 2010 Introduce a Girl to Engineering Day took place at the university's Columbus campus on Saturday, June 5, 2010. Approximately 100 girls in grades 3-6 attended the event, which introduced participants to the exciting world of engineering through fun, hands-on activities and conversations with female engineering students. As part of this event, the Women in Engineering Program also hosted concurrent sessions for participants' parents/guardians. An estimated 60 parents/guardians attended these sessions, which included presentations and a panel discussion with current female engineering students. A total of 55 female undergraduate and graduate engineering students enrolled in the Ohio State College of Engineering volunteered for the 2010 event. Volunteers helped with registration, led hands-on activities, served as panelists, chaperoned groups of participants, and so on. The Ohio State Women in Engineering Program's 2010 Introduce a Girl to Engineering Day @ Columbus School for Girls (CSG) took place on April 23 for CSG students in Grades 5 and 6. A total of 29 Ohio State female engineering undergraduate and graduate students served as volunteers at the event. In addition to leading the hands-on activities, these volunteers talked informally with the CSG students over lunch and participated in a panel discussion at the conclusion of the event.

Participating Schools: Only a limited number of districts/schools/youth can be served.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-pre-college-programs#Elem. External Partner: Shell.

Marion Area Science and Engineering Fair

Ohio State Marion is host to the Marion Area Science and Engineering Fair, at which approximately 200 students exhibit science and engineering projects. The best high school projects advance to the International Science and Engineering Fair. Middle school students compete for the right to advance to the Discovery Channel Young Scientist Challenge. The Marion fair involves about 70 volunteer judges (including several faculty members from Ohio State Marion) and others. The event is organized by Science Fair Director Brian McEnnis, professor of mathematics at Ohio State Marion.

Participating Schools: Schools in Crawford, Delaware, Knox, Marion, Morrow, Seneca, Union, and Wyandot counties.

Ohio State Contact: Department of Mathematics, College of Arts and Sciences, Ohio State Marion, 614-005-6271, academic.marion.ohio-state.edu/sciencefair/MASEF.htm.

WiE GROW

Hosted by the Women in Engineering Program at The Ohio State University and made possible through the generous support of The Scotts Miracle-Gro Company, WiE GROW is a 5-day, nonresidential summer program designed to introduce 35 8th grade girls to the exciting world of engineering and to ignite their interest in an engineering-related career. Participants were introduced to engineering through a variety of hands-on activities organized by various departments within the College of Engineering. They also had the opportunity to visit Nestles and Scotts Miracle-Gro to learn what an engineer does on a day-to-day basis. Nonrefundable \$25 application fee, and a \$295 participation fee if accepted to the program. Scholarships are available.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-grow. External Partner: Scotts Miracle-Gro Company.

Women in Engineering Classroom Visits Program

The Women in Engineering Program (WiE) visited four different schools and homeschool groups as part of the 2009-2010 WiE Classroom Visits Program, reaching students in grades 1-12 during 8 visits. During these visits, WiE's Assistant Director for Outreach gave an age-appropriate introduction to the field of engineering and also talked with students about the opportunities available to engineering undergraduates at Ohio State. The majority of these visits concluded with a fun, hands-on activity designed to introduce the students to specific engineering areas. To provide a near-peer perspective on the importance of engineering related careers, both male and female undergraduate engineering students were invited to participate in these visits whenever possible.

Participating Schools: Delaware County: Olentangy Local—Tyler Run Elementary, Orange High. Franklin County: Columbus Catholic Diocese—Bishop Hartley High; Dublin City—Willard Grizzell Middle; Westerville City—Longfellow Elementary; Worthington City—Colonial Hills Elementary. Licking County: Granville Exempted Village.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-pre-college-programs#All.

Young Women's Summer Institute

Young Women's Summer Institute is a weeklong program in July sponsored by the Ohio Supercomputer Center for middle school girls. It is designed to promote computer, math, and science skills as well as provide hands-on experiences. YWSI helps girls develop an interest in these subjects by allowing them to work on practical, interesting scientific problems using the latest computer technology. K-12 science and math teachers may also participate.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Supercomputer Center, Office of Research, 614-292-6067, ywsicontact@osc.edu, www.osc.edu/education/ywsi/. External Partners: Battelle, Procter & Gamble, AEP.

ENGLISH

4-H CLOVER (Catch Lots of Very Exciting Reading)

CLOVER is a 4-H literacy/reading program designed to encourage 4-H members of all ages to enjoy reading, engage in community service/volunteering, and gain knowledge related to their selected project areas. Stark County 4-H youth (ages 5-18) are eligible to enroll. Youth earn points by reading age/ability appropriate books, magazine articles, and textbook chapters on their project area(s) and their 4-H project resource manual. Reading-related community service also earns points.

Participating Schools: Schools in Stark County.

Ohio State Contact: Stark County, 4-H Youth Development, OSU Extension, starkcountyjrfair4h.com.

Summer Reading Clinic

Ohio State Lima offers a Summer Reading Clinic to students in grade K-9. The clinics include approximately 20 hours of individual or paired tutoring time for primary and middle childhood students. Each student's reading ability is assessed, and lessons are designed to meet each student's needs. The program objectives are to (1) help children develop a love of reading and books; (2) increase the amount of time the children spend reading and sharing books at home with family members and friends; and (3) help the children improve their reading skills. The instructors in the reading clinic are Master of Education students in the Ohio State Lima Early Childhood and Middle Childhood Teacher Education Program. Faculty in the Ohio State Lima Education Program supervise all assessment and instruction. Ohio State Lima Summer Reading Program works with primary students enrolled in the Lima YWCA Summer Day Camp Program and with middle childhood students from the Lima-Allen County area.

Participating Schools: Allen County: Lima City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Lima, 419-995-8641. External Partner: YWCA-Lima.

FAMILY AND CONSUMER SCIENCES

4 Girls Only

A total of 185 seventh- and eighth-grade girls from Pickaway County participated in a program called 4 Girls Only focusing on building healthy relationships, improving self-esteem, recognizing signs of dating violence and abuse, and knowing where to seek help. All public school districts in Pickaway County participated in this program. School nurses, teachers, administrators and guidance counselors commented about the need for a program that explores dating violence, self-esteem and healthy relationships. The program received financial support from a Women's Health Week grant funded by from the Violence and Injury Prevention Program, Bureau of Health Promotion and Risk Reduction, Office of Healthy Ohio, Ohio Department of Health, and Ohio State's Area Health Education Center.

Participating Schools: Pickaway County: Circleville City, Logan Elm Local, Teays Valley Local, Westfall Local.

Ohio State Contact: Pickaway County, OSU Extension, 740-474-7534. External Partners: Haven House, Family & Children First Council, Teen Task Force, YMCA, Pickaway County Health Department, and American Red Cross.

Extension Food, Nutrition, and Health Programs

Extension Food, Nutrition, and Health programming helps develop youth knowledge, skills, and understanding of nutrition, menu planning, safe food handling, kitchen equipment safety, consumer knowledge, fitness, and health. Programs conducted by county Extension educators for school-age children and youth include the following:

Auglaize County—37 youth gained knowledge on nutrition, handwashing, food safety, and manners as a result of attending two Kid's Chef Schools. They practiced safe food preparation techniques.

Fayette County—Twenty 4-H youth helped Head Start students learn more about healthy eating and being physically active. In the monthly programs, Head Start students learned a nutrition lesson and tried different fruits and vegetables or whole grain foods the 4-H members have helped them make for snacks.

Fulton County—As a community partner with the Northwest Ohio Educational Service Center, 4-H provides health and fitness education to five school locations in local schools, with Fayette Elementary, Evergreen Elementary, and Liberty Center receiving a total of 54 programs; Wauseon receiving 12 programs; and Evergreen Middle School receiving 12 programs. More than 200 youth received programming to fight obesity. The project is supported by a 21st Century Learning Centers grant. Organwise Guys Nutrition/Wellness Education is provided each spring at Delta Elementary. Six sessions are presented in each K-2 classroom with information on nutrition, food safety, physical activity, and other wellness topics.

Hamilton County—During the Hamilton County Fair, youth and families were taught about fitness, the various food groups, and food safety using the JIFF Scavenger Hunt and the MyPyramid Zone. The Pyramid Zone is 10 activity stations with hands on activities to learn about fitness, the food groups, label reading, food safety, serving sizes, and choosing healthy snacks

Harrison County—A total of 70 youth enjoyed the Health Hep-tathlon, a daylong, semicompetitive event featuring fun tips on better sleeping, eating, drinking (water!), strength training, and aerobic habits. All of the participants improved attitudes or tried new activities related to personal wellness and choice-making.

Hocking County—A Staying Healthy series was presented to students in grades 3-5 at Union Furnace and Central elementary schools.

Lorain County—Over 4,000 students in Lorain County and Wayne County schools received a Wellness Page on nutrition and physical activity for children on the back of their school lunch menu, which was developed by OSU Extension in Lorain County. Some of the students also participated in school nutrition programming related to the Wellness Page. They can be downloaded and used for free @ <http://lorain.osu.edu/topics/family-and-consumer-sciences/wellpages>.

Monroe County—Extension staff organized and taught their seventh annual safety and health series to 265 students at Sardis and Hannibal Elementary Schools during October 2009. Of the students, 80% indicated they learned very much when asked what they learned from the event. Almost 80% of the students agreed with the statement that they learned something they could use. The kindergarten, first, and second grade students learned about ATV Safety, Sensible Snacking and Hand Washing,

Water Safety, and Animal Safety. Third, fourth, fifth, and sixth graders learned about ATV Safety, Shooting Sports Safety, Sensible Snacking and Hand Washing, and Lawn Mower Safety.

Richland County—Approximately 1,000 third- through sixth-grade students at four Madison elementary schools participated in a series of nutrition education classes aimed at balancing healthy eating with less sedentary and more physical activity. Students verbalized they learned and practiced making healthier food choices, including eating more vegetables, planning healthy meals and snacks, learning the value to the body of healthy food choices, and reading nutrients on food labels.

Shelby County—After-school nutrition programming is being offered to students in conjunction with students tasting and learning snacks they can make at home that are healthy, nutritious and beneficial; but also taste great. MyPyramid, serving sizes, fiber, sugar, and; foods around the world are some topics to be explored. Starting in 2010 a curriculum called Choose It Lose It! will be used to help students balance food intake and energy burned.

Wayne County—With the rise in childhood obesity more than 15 Wayne County agencies have drawn together to form the Child Nutrition and Fitness Coalition. The goals are to increase awareness of services, publish a directory, and develop a common message that the service providers would use to promote nutritional resources in our community. As co-chair of the committee, the FCS educator has the opportunity to extend networks and enhance Extension materials and resources. The Eat Well Play Hard After-School Program is a part of the mission as it was used in three schools reaching more than 200 children through 7 classes teaching wise nutritional snack choices. More than 90% verbally indicated they have tried new foods and recipes and learned new food preparation skills.

Participating Schools: Fulton County: Evergreen Local—Evergreen Elementary, Evergreen Middle; Gorham Fayette Local—Fayette Elementary; Liberty Center Local—Liberty Center Elementary; Pike-Delta-York Local—Delta Elementary; Wauseon Exempted Village—Elm Street Elementary. Hocking County: Logan-Hocking Local—Central Elementary, Union Furnace Elementary. Monroe County: Switzerland of Ohio Local—Hannibal Elementary, Sardis Elementary. Richland County: Madison Local—Eastview Elementary, Madison South Elementary, Mifflin Elementary, Wooster Heights Elementary. Shelby County: Hardin-Houston Local—Hardin Elementary; Sidney City—Northwood Elementary. Wayne County: Triway Local—Shreve Elementary. Wooster City—Cornerstone Elementary, Lincoln Way Elementary. Schools in Auglaize, Fayette, Harrison, and Lorain counties.

Ohio State Contact: 4-H Youth Development and Family and Consumer Sciences, OSU Extension, extension.osu.edu.

Global Economy

Family and Consumer Sciences/Community Development and 4-H Youth Development Educators taught a Junior Achievement program that emphasized Global Economy to fifth and sixth graders. A series of five sessions engaged students in learning activities that enhanced their knowledge about why a global economy is so important and the effects it has on their everyday life. The student evaluations were very positive and showed a knowledge gain about the process of using money in different countries.

Participating Schools: Highland County: Lynchburg-Clay Local—Lynchburg-Clay Elementary, Lynchburg-Clay Middle.

Ohio State Contact: Highland County, OSU Extension, high@postoffice.ag.ohio-state.edu, highland.osu.edu.

Hancock Youth Financial Education Series

A series of five classes on financial education is taught to all 460 middle school students in Findlay City Schools. Topics include money values and beliefs, your money personality, needs vs. wants, little amounts add up, giving (time, talent, treasure), checking and savings accounts, budgets, goal setting, and how education affects learning over a lifetime.

Participating Schools: Hancock County: Findlay City—Central Middle, Donnell Middle, Glenwood Middle.

Ohio State Contact: Hancock County, 4-H Youth Development, OSU Extension, hanc@ag.osu.edu.

Mini-Community

Approximately 400 sixth grade students, 450 third grade students, and 25 high school student leaders participated in the Developing Smart Money Skills for the Mini-Community program at Hillsboro City Schools. The program involves mentoring and experiential learning with each educational level. High school students completed a training program, practicing lesson plans, and learning financial information from local bankers. High school students then practiced their mentoring, teaching, and public speaking skills by helping the 4-H professionals teach money management lessons to sixth-grade social studies classes. Students learned economic concepts such as scarcity, supply and demand, opportunity cost, and running a business. With the help of high school students, sixth graders elected officers, created business products out of crafts, paid for business expenses (with pretend money), and practiced lessons to teach elementary students. On the last day of the program, all sixth-grade students, along with the high school volunteers, traveled to the elementary school to teach third-grade students interactive money management lessons and sell their business products to the third graders.

Participating Schools: Highland County: Hillsboro City.

Ohio State Contact: Highland County OSU Extension, high@postoffice.ag.ohio-state.edu, highland.osu.edu.

Money and Investing Fundamentals

Nine library branches in the Cuyahoga County Public Library system offer a 9-week financial literacy program to youth K-10th grade. This program is funded by FINRA (Financial Industry Regulatory Authority) with support provided by OSU Extension staff. Three different age-appropriate curricula were developed for youth in grades K-2, 3-6, and 7-10. Topics covered in the program include needs versus wants, advertising, budgeting, saving, earning, and investing. Participants complete a pretest and a posttest. Participating libraries include Brook Park, Brooklyn, Garfield Heights, Maple Heights, North Olmsted, Parma-Ridge, South Euclid-Lyndhurst, Southeast, and Warrensville.

Participating Schools: Schools in Cuyahoga County.
Ohio State Contact: Cuyahoga County, OSU Extension, cuya@ag.osu.edu. External Partners: Cuyahoga County Public Library, Financial Industry Regulatory Authority.

Real Money, Real World

Real Money, Real World is a signature program of OSU Extension. The program teaches youth money management skills and helps them to understand why they need to get a good education. It also helps them to understand how their life choices will influence their income and ability to provide for themselves. This simulation teaches students the basics of balancing a checkbook, how to manage a budget, the value of money, how to track money and develop a spending plan, and the responsibilities of saving. Students investigate how career choices can be influenced by education and other factors, learn skills needed to manage finances, and gain knowledge of how critical decisions affect family living in this simulation activity. Students are given occupations based on their educational plans after high school and monthly salaries equivalent to the average monthly salary in that occupation. They spend their salaries on the necessities and luxuries they envisioned as part of the adult lifestyle. Students begin to realize the impact of their immediate academic studies, their future goal choices, and the importance of education to their ability to succeed in the adult world.

Participating Schools: Schools in Adams, Allen, Ashland, Ashtabula, Athens, Auglaize, Brown, Butler, Champaign, Clark, Clermont, Clinton, Columbiana, Crawford, Cuyahoga, Darke, Defiance, Delaware, Erie, Fairfield, Fayette, Franklin, Fulton, Gallia, Geauga, Greene, Hamilton, Hancock, Hardin, Harrison, Henry, Highland, Holmes, Jackson, Jefferson, Knox, Lake, Licking, Logan, Lorain, Lucas, Madison, Mahoning, Medina, Meigs, Mercer, Miami, Monroe, Montgomery, Morrow, Muskingum, Noble, Perry, Pickaway, Portage, Preble, Putnam, Richland, Ross, Sandusky, Scioto, Shelby, Stark, Summit, Trumbull, Tuscarawas, Union, Vinton, Warren, Washington, Wayne, Williams, Wyandot counties.

Ohio State Contact: Family and Consumer Sciences, OSU Extension, 419-231-6085, realmoneyrealworld.osu.edu.

Summer Food Service Program

The Summer Food Service Program, which provides free, nutritious meals to school-aged children in low-income areas during summer school vacation, is a unique partnership between OSU Extension and local sponsors such as schools, units of local government, public or nonprofit private residential summer camps, other nonprofit private organizations, and colleges or universities participating in the National Youth Sports Program. Any child may receive a free meal at an approved open site without the need to apply. This partnership enables these youth to partici-

pate in nutrition education and physical activities designed to teach them the importance of a healthy lifestyle through daily food choices.

Clermont County—The Boys & Girls Club of Clermont County is the sponsoring agency for the New Richmond Unit. A second unit is sponsored by the Felicity Initiative for Neighborhood Excellence located in the Felicity-Franklin Local Schools. The sites serve youth aged 6 to 18. Educational lessons lasting approximately one hour are offered one day a week at each facility. Lessons include a nutritional message of the week, physical activities along with food tastings. Food safety and hand washing are emphasized. Local program sites are determined by the number of students that qualify for USDA free and reduced priced lunches.

Hardin County Extension offered 6 weeks of programming during the Summer Food Service meal sites at four Kenton locations. A total of 238 youth chose to participate in hands-on activities focused on MyPyramid information from the Professor Popcorn curriculum.

Lorain County participates in the Summer Food Service Program in cooperation with Elyria City Schools, Salvation Army of Elyria and Lorain, and the Neighborhood House Association. Shelby County Extension offers 5 weeks of programming during the Summer Food Service meal sites at 2 sites, soon to be three. Youth participate in hands-on activities focused on MyPyramid information and next participate in a 30-minute activity program. Students from the various city schools come to the food sites where the food is served.

Lucas County—Through the Family Nutrition Program, Ohio State University Extension offers educational programming at sites to increase participation and help children continue learning in the summer months while focusing on nutrition and the importance of physical activity.

Shelby County Extension offers 5 weeks of programming during the Summer Food Service meal sites at 2 sites, soon to be three. Youth participate in hands-on activities focused on MyPyramid information and next participate in a 30 minute activity program. Students from the various city schools come to the food sites where the food is served.

Participating Schools: Clermont County: Felicity-Franklin Local, New Richmond Exempted Village. Lorain County: Elyria City. Schools in Hardin and Shelby Counties.

Ohio State Contact: OSU Extension, extension.osu.edu. External Partners: Salvation Army of Elyria and Lorain, Neighborhood House Association.

Youth Educational Shoplifting (YES)

The OSU Extension Hocking County Family and Consumer Sciences Program cooperated with the Hocking County Juvenile Court to offer Youth Educational Shoplifting (YES) classes. Developed by the National Association of Shoplifting Prevention, the educational program is designed to help youth understand why they shoplifted and how to avoid doing it again in the future. To fulfill the program requirements youth must complete 5–6 hours of homework and participate in the 6-hour class.

Participating Schools: Schools in Hocking County.
Ohio State Contact: Hocking County, OSU Extension, hocking.osu.edu.

Youth EFNEP (Expanded Food and Nutrition Education Programs)

The Youth EFNEP program provides nutrition education to help children develop healthy eating patterns and skills in preparing nutritious meals and snacks. The youth EFNEP program emphasizes a variety of delivery modes for reaching youth, from traditional classroom settings and after-school programs during the school year to day camps and youth group activities during the summer. The youth curriculum emphasizes learning by experience and reflection and is adaptable to a wide variety of educational settings.

Cuyahoga County—Approximately 2,500 school-age youth, both in school and in out-of-school educational programming, improved their knowledge of nutrition, food safety, and physical activity through Youth EFNEP education. Participating students showed positive behavior changes related to variety of core nutrition concepts. As examples, nearly 70% of third and fourth graders reported eating breakfast almost every day; 65% of youth reported participating in daily physical activity; and 80% of youth wash their hands before they touch food.

Franklin County—The Youth EFNEP program provides nutrition education to help children develop healthy eating patterns and skills in preparing nutritious meals and snacks. The youth EFNEP program emphasizes a variety of delivery modes for reaching youth, from traditional classroom settings and after-school programs during the school year to day camps and youth group activities during the summer. The youth curriculum emphasizes learning by experience and reflection and is adaptable to a wide variety of educational settings. The Franklin County 4-H Youth Expanded Food and Nutrition Education Program reached 1,315 youth through school enrichment and summer programs.

Jackson County—Over 200 youth were positively impacted through the Expanded Food and Nutrition Education Program (EFNEP). Through this program, caregivers learned to use better nutritional practices in preparing and purchasing food for their children, with 33% of the participants reporting that their children ate breakfast more often after they had attended the EFNEP classes. These youth are impacted through their parent or caregiver's participation. EFNEP groups have taken place in the county in 2009 through Jackson-Vinton-Community Action Head Start and Wellston City Schools Project SAFE.

Participating Schools: Cuyahoga County: Cleveland Metropolitan, East Cleveland City, Euclid City, Maple Heights City, Parma City.

Ohio State Contact: Family and Consumer Sciences, OSU Extension, fcs.osu.edu/hn/EFNEP.php.

GLOBAL EDUCATION

Chinese Culture Boxes

The Institute for Chinese Studies has several boxes that can be borrowed for use in schools, libraries, and community organizations for up to 2 weeks. The boxes contain information and lessons about Chinese history, language, art, culture, toys, and games and include Chinese artifacts such as a puppet kit, music CD, abacus, books, and Chinese chess set. Smaller kits are available that contain the artifacts and information for one particular subject or activity. Although materials in the box may be used for display purposes, students are welcome to handle any of the items. The Institute for Chinese Studies will mail the box or separate kits free of charge directly to the school or organization wishing to use the items. They must be returned at the expense of the borrower.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Institute for Chinese Studies, Office of International Affairs, 614-688-4253, china@osu.edu, ics.osu.edu/k_12.html.

Eastern European, Russian, and Central Asian Themed STEM Box

The Center for Slavic and East European Studies offers STEM boxes with information and presentation materials on historically important scientists and inventors from Eastern Europe, Russia, and Central Asia. The box includes power point presentation files, videos and books on Nikola Tesla, Marie Curie, Ulugh Beg, Copernicus, and Ivan Pavlov. In addition, the box includes fact sheets, books, and activities on time zones and Russian biomes. The box is ideal for students up to the eighth grade.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Center for Slavic and Eastern European Studies, Office of International Affairs, 614-292-8770, csees@osu.edu, slaviccenter.osu.edu.

Global Education Resources

The Office of International Affairs (OIA) provides global education outreach resources to preschool through college (P-16) educators, as well as businesses, state and local government, civic organizations, and the community at large, by promoting a variety of programs and activities on and off campus, in Columbus and around the state of Ohio. The goals are to advance and communicate Area Studies knowledge and global understanding, facilitate and enhance learning of foreign languages and culture, promote knowledge about other parts of the world and Ohio's integration with the world, and promote understanding of diverse perspectives. International Education Outreach shares resources for P-12 educators with the Area Studies Centers and the foreign languages departments at The Ohio State University. These resources include film loan libraries, see the Center for Slavic and East European Studies (<http://slaviccenter.osu.edu/>), the East Asian Studies Center (<http://easc.osu.edu/>), and the Middle East Studies Center (<http://mesc.osu.edu/>). OIA also accommodates schools on campus for international education visits; to inquire about visits, e-mail outreach@oia.osu.edu.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of International Affairs, outreach@oia.osu.edu, oia.osu.edu/international-education-outreach.html.

Global School Bus

The Global School Bus program taps into the knowledge, experience, and expertise of international students and scholars, study abroad alumni, faculty, and staff with international cultural experiences. The Office of International Affairs has a large pool of speakers who are proficient at engaging a variety of age groups and leading activities to help students learn about other countries and their cultures. They come prepared with materials and relevant artifacts to engage students in the learning process. Teachers may request speakers from the Office of International Affairs international education outreach program by e-mailing outreach@oia.osu.edu. Speakers must be requested at least 2 weeks prior to the date of the event.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of International Affairs, outreach@oia.osu.edu, oia.osu.edu/international-education-outreach/speakers-bureau.html.

International Education Week

International Education Week, celebrated every year in November, is an opportunity to highlight the benefits of international education and student exchange worldwide. The Office of International Affairs (OIA) and its five Area Studies Centers collaborate with the Ohio Department of Education to engage K-12 students in international learning opportunities. This joint initiative is part of efforts to promote programs that prepare students for a global environment and advance knowledge about other parts of the world. Learning ideas are available at <http://oia.osu.edu/international-education-outreach/>.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of International Affairs, outreach@oia.osu.edu, oia.osu.edu/international-education-week.html.

Japan Culture Boxes

The Institute for Japanese Studies, in cooperation with the Japan-America Society of Central Ohio, offers Japan Culture Boxes that can be borrowed for use in schools, libraries, and community organizations for up to 2 weeks. Each box contains an array of items from Japan such as clothing, traditional toys, maps, postcards, cooking utensils, and various other materials. The box also contains a description and background information for each item. Although materials in the box may be used for display purposes, students are welcome to handle any of the items. The Institute for Japanese Studies will mail the box free of charge directly to the school or organization wishing to use the box. The box must be returned at the expense of the borrower.

Participating Schools: Available to all districts/schools/youth, libraries, and organizations in Ohio.

Ohio State Contact: Institute for Japanese Studies, Office of International Affairs, 614-292-3345, jasco@osu.edu, japan.osu.edu/culture_box_program.html.

Passport to China Speakers Program

The Institute for Chinese Studies has a group of volunteers who conduct workshops or presentations that will give participants a virtual tour of China through fun, hands-on activities. The program can be adapted for various ages, classes, and group sizes. The program is free, but in some cases, there may be a small charge to cover the cost of materials or transportation.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Institute for Chinese Studies, Office of International Affairs, 614-247-6893, china@osu.edu, ics.osu.edu/k_12.html.

Passport to Japan Program

The Institute for Japanese Studies, in conjunction with the Japan-American Society of Central Ohio, has a group of volunteers who give presentations about Japan. These volunteers will come to classrooms to conduct workshops or presentations that will give participants a virtual tour of Japan through fun, hands-on activities. The program can be adapted for various ages, classes, and group sizes. The program is free, but there may be a small charge to cover the cost of materials or transportation.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Institute for Japanese Studies, Office of International Affairs, 614-292-3345, jasco@osu.edu, japan.osu.edu/passport_program.html.

Slavic Studies In-school Presentations and Artifact Boxes

The Center for Slavic and East European Studies offers presentations by experts on Central and Eastern Europe, Russia, the Caucasus, and/or Central Asia. Members of the Outreach Team (graduate students, university professors, and native speakers who are experts in the region) are available, free of charge, to come to schools to give presentations on a number of topics. The teams are prepared with interactive presentations and hands-on activities for students of all ages. Culture Boxes contain hands-on objects to teach about Russia, Eastern Europe, and Central Asia. These boxes can be rented, free of charge, for a 2-week period. They contain visual aids to help teach about Russia, Eastern Europe, and Central Asia.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Center for Slavic and Eastern European Studies, Office of International Affairs, 614-292-8770, csees@osu.edu, slaviccenter.osu.edu/teachers_inschool.html.



Photo by Jodi Miller, courtesy of Communication & Technology, College of Food, Agricultural, and Environmental Sciences.

HEALTH, FITNESS, AND SAFETY

Activate Youth

The Activate Youth program enrolled 17 kids and families in an 8-week weight loss/fitness program. This was a collaborative effort between a local pediatrician, Licking Memorial Hospital, YMCA, and OSU Extension. As a result, 65% of the participants lost or maintained weight; 100% became more physically active; 100% reported gaining knowledge about nutrition facts; and 100% reported that they learned at least one new way to eat healthier.

Participating Schools: Schools in Licking County
Ohio State Contact: Licking County, OSU Extension, licking.osu.edu.

Adapted Recreational Sports Programs

Recreational Sports offers adapted swimming and gymnastics for children with disabilities, ages 4-16; 1 lesson a week for 7 weeks per quarter. Program staff participated in Special Education Outreach Fairs in the Dublin and South-Western city school districts to showcase adapted recreation programs to parents.

Participating Schools: Available to all districts/schools/youth in Ohio.
Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3693, www.recsports.osu.edu/community-programs.

ATV Safety Institute Riders Course Workshops

Providing education to reduce accidents and injuries is the goal of the ATV Safety Institute Riders Course Workshops. As of December 2009, a total of 42 Mercer County youth ages 9-15 have successfully completed the 4-hour hands-on learning course. Partnering with the Mercer County Sheriff's Department and Ultimate Power Sports of Celina, youth were engaged in both classroom instruction and practicing riding skills. Participants and parents noted that new material was learned and safety precautions were reinforced as a result of their attendance. The project is supported by a grant from Honda.

Participating Schools: Schools in Mercer County.
Ohio State Contact: Mercer County, OSU Extension.

Belmont County Career, Technology, and Safety Exploration Day

Nearly 1,300 elementary students from throughout Belmont County participated in Belmont County Career, Technology, and Safety Exploration Day. A total of 75 local business and community leaders brought vehicles of all shapes and sizes to the county fairgrounds and demonstrated the use of these vehicles for the young participants. The youth learned about career choices, safety aspects of careers and the vehicles used, and technology in relationship to careers in the local communities.

Participating Schools: Schools in Belmont County.
Ohio State Contact: Belmont County, OSU Extension, belmont.osu.edu.

Bicycle Rodeo

Each year, OSU Extension 4-H staff conduct a bicycle safety rodeo at Amish Health and Safety Day and give away bicycles donated by Pomerene Hospital. The rodeo gives the youth an opportunity to practice their bicycle skills and knowledge.

Participating Schools: Available to all Amish youth attending the Health & Safety Day event.

Ohio State Contact: Holmes County, OSU Extension, holmes.osu.edu.

Central Ohio ThinkFirst Chapter

In 2008, the OSU Medical Center injury prevention program completed 122 presentations to 2,849 youth, 2,580 teens, and 2,965 adults. For K-5 students, programs addressed traffic, playground, sports, bicycle, school bus, pedestrian, and water safety and safety around guns/knives. For 6th-8th grades, topics included traffic and sports safety, effects of drugs/alcohol, bullying & safety around guns/knives. Teens in grades 9-12 learned about traffic safety, distracted driving, underage drinking, making positive choices, safety around guns/knives, and pedestrian safety. A VIP (Voice for Injury Prevention—former trauma patient) also speaks to the audience, sharing personal experience of how life has changed as a result of making a poor choice. Partners include 4-H CarTeens and the Juvenile Courts mandating teen and parent participation as part of their restitution; Mayor's Courts of New Albany, Dublin, and Upper Arlington; the Fatality Review Board for Franklin County; and SafeKids and SafeCommunities. The chapter is funded by the OSUMC Trauma Department.

Participating Schools: Delaware County: Delaware City—Rutherford B. Hayes High. Fairfield County: Pickerington Local—Tussing Elementary, Pickerington Central High. Franklin County: Bexley City—Bexley Middle; Columbus Catholic Diocese—Trinity Elementary; Columbus City—Avalon Elementary, Brookhaven High, Centennial High, Columbus Alternative High, Eastmoor Academy, Independence High, Walnut Ridge High, West High; Gahanna-Jefferson City—Gahanna Lincoln High; Hamilton Local—Hamilton Township High; South-Western City—Franklin Heights High, Grove City High; Upper Arlington City—Jones Middle; Westerville City—Westerville Central; Worthington City—Colonial Hills Elementary, Thomas Worthington High; independent—Grace Christian Academy; Redeemer Lutheran Elementary. Marion County: Marion City—Harding High.

Ohio State Contact: University Hospitals, Trauma/PM&R, OSU Medical Center, 614-293-3021, www.thinkfirst.org/home.asp.

Deadly Look Alikes

This program taught children in grades 3-7 about safety around common household products. They learned that appearance, color, and packaging can be confusing when selecting products and how easy it is to confuse products. They also made sun safety bracelets and learned to identify hazards in the home. The program was held at a safety day camp sponsored by the Farm Bureau.

Participating Schools: Schools in Auglaize County.
Ohio State Contact: Auglaize County, OSU Extension, auglaize.osu.edu.

Extension Food, Nutrition, and Health Programs

Extension Food, Nutrition, and Health programming helps develop youth knowledge, skills, and understanding of nutrition, menu planning, safe food handling, kitchen equipment safety, consumer knowledge, fitness, and health. Programs conducted by county Extension educators for school-age children and youth include the following:

Auglaize County—37 youth gained knowledge on nutrition, handwashing, food safety, and manners as a result of attending two Kid's Chef Schools. They practiced safe food preparation techniques.

Fayette County—Twenty 4-H youth helped Head Start students learn more about healthy eating and being physically active. In the monthly programs, Head Start students learned a nutrition lesson and tried different fruits and vegetables or whole grain foods the 4-H members have helped them make for snacks.

Fulton County—As a community partner with the Northwest Ohio Educational Service Center, 4-H provides health and fitness education to five school locations in local schools, with Fayette Elementary, Evergreen Elementary, and Liberty Center receiving a total of 54 programs; Wauseon receiving 12 programs; and Evergreen Middle School receiving 12 programs. More than 200 youth received programming to fight obesity. The project is supported by a 21st Century Learning Centers grant. Organwise Guys Nutrition/Wellness Education is provided each spring at Delta Elementary. Six sessions are presented in each K-2 classroom with information on nutrition, food safety, physical activity, and other wellness topics.

Hamilton County—During the Hamilton County Fair, youth and families were taught about fitness, the various food groups, and food safety using the JIFF Scavenger Hunt and the MyPyramid Zone. The Pyramid Zone is 10 activity stations with hands on activities to learn about fitness, the food groups, label reading, food safety, serving sizes, and choosing healthy snacks.

Harrison County—A total of 70 youth enjoyed the Health Hephathlon, a daylong, semicompetitive event featuring fun tips on better sleeping, eating, drinking (water!), strength training, and aerobic habits. All of the participants improved attitudes or tried new activities related to personal wellness and choice-making.

Hocking County—A Staying Healthy series was presented to students in grades 3-5 at Union Furnace and Central elementary schools.

Lorain County—Over 4,000 students in Lorain County and Wayne County schools received a Wellness Page on nutrition and physical activity for children on the back of their school lunch menu, which was developed by OSU Extension in Lorain County. Some of the students also participated in school nutrition programming related to the Wellness Page. They can be downloaded and used for free @ <http://lorain.osu.edu/topics/family-and-consumer-sciences/wellpages>.

Monroe County—Monroe County Extension Staff organized and taught their seventh annual safety and health series to 265 students at Sardis and Hannibal Elementary Schools during October

2009. Of the students, 80% indicated they learned very much when asked what they learned from the event. Almost 80% of the students agreed with the statement that they learned something they could use. The kindergarten, first, and second grade students learned about ATV Safety, Sensible Snacking and Hand Washing, Water Safety, and Animal Safety. Third, fourth, fifth, and sixth graders learned about ATV Safety, Shooting Sports Safety, Sensible Snacking and Hand Washing, and Lawn Mower Safety.

Richland County—Approximately 1,000 third- through sixth-grade students at four Madison elementary schools participated in a series of nutrition education classes aimed at balancing healthy eating with less sedentary and more physical activity. Students verbalized they learned and practiced making healthier food choices, including eating more vegetables, planning healthy meals and snacks, learning the value to the body of healthy food choices, and reading nutrients on food labels.

Shelby County—After-school nutrition programming is being offered to students in conjunction with students tasting and learning snacks they can make at home that are healthy, nutritious and beneficial; but also taste great. MyPyramid, serving sizes, fiber, sugar, and; foods around the world are some topics to be explored. Starting in 2010 a curriculum called Choose It Lose It! will be used to help students balance food intake and energy burned.

Wayne County—With the rise in childhood obesity more than 15 Wayne County agencies have drawn together to form the Child Nutrition and Fitness Coalition. The goals are to increase awareness of services, publish a directory, and develop a common message that the service providers would use to promote nutritional resources in our community. As co-chair of the committee, the FCS educator has the opportunity to extend networks and enhance Extension materials and resources. The Eat Well Play Hard After-School Program is a part of the mission as it was used in three schools reaching more than 200 children through 7 classes teaching wise nutritional snack choices. More than 90% verbally indicated they have tried new foods and recipes and learned new food preparation skills.

Participating Schools: Fulton County: Evergreen Local—Evergreen Elementary, Evergreen Middle; Gorham Fayette Local—Fayette Elementary; Liberty Center Local—Liberty Center Elementary; Pike-Delta-York Local—Delta Elementary; Wauseon Exempted Village—Elm Street Elementary. Hocking County: Logan-Hocking Local—Central Elementary, Union Furnace Elementary. Monroe County: Switzerland of Ohio Local—Hannibal Elementary, Sardis Elementary. Richland County: Madison Local—Eastview Elementary, Madison South Elementary, Mifflin Elementary, Wooster Heights Elementary. Shelby County: Hardin-Houston Local—Hardin Elementary; Sidney City—Northwood Elementary. Wayne County: Triway Local—Shreve Elementary. Wooster City—Cornerstone Elementary, Lincoln Way Elementary. Schools in Auglaize, Fayette, Harrison, and Lorain counties.

Ohio State Contact: 4-H Youth Development and Family and Consumer Sciences, OSU Extension, extension.osu.edu.

Generation Rx Initiative

This learning community involves more than 70 Ohio State students, faculty, and staff members from the College of Pharmacy, Student Wellness Center, and Counseling & Consultation Services. Their goal is to enhance student understanding of medication safety issues, particularly the dangers of abusing prescription and nonprescription medications. A website includes links to helpful resources as well as downloadable materials relevant to elementary, middle school, high school, and college students. This group has partnered with other institutions (K-12 and collegiate) to offer presentations, workshops, and other resources for students and teachers. The focus is K through college, but other community programs and partnerships are involved as well. In 2010, seven first-year PharmD students provided an over-the-counter medication safety workshop for approximately 150 eighth graders in Pickaway County. The program focused on issues relating to the abuse of dextromethorphan products. The students presented basic information, performed a skit, and led the eighth graders in the production of skits and posters relating to this problem.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: College of Pharmacy, 614-292-2492, 614-292-4717, and 614-688-5951, generationrx@pharmacy.ohio-state.edu, www.pharmacy.ohio-state.edu/outreach/generation-rx/. Ohio State Partner: Student Wellness Center, Counseling & Consultation Services, Office of Student Life.

Girls Reaching to Achieve in Sports and Physics (GRASP) Summer Camp

GRASP is a 5-day summer camp for middle school girls hosted by the Ohio State University Department of Physics and the Society of Women in Physics with help from physics faculty, staff, and graduate and undergraduate students. Each day consists of hands-on, interactive physics demonstrations and projects followed by a physical activity that shows how physics relates to everyday phenomena. Ohio State undergraduate and graduate students are present at all sessions to help supervise and share their understanding and love of physics with the GRASP participants. The third annual GRASP Summer Camp was held in June 2010. Physical activities included football, ice skating, climbing wall, and archery. These activities corresponded with lectures from physics faculty on the topics of projectile motion, physics of biathlons and archery, and microwaves. Participants in the 3rd annual GRASP Camp were taken on a field trip to the Center of Science and Industry (COSI) in Columbus, Ohio, where they learned about human nutrition and body composition at the Labs in Life.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Department of Physics, College of Arts and Sciences, 614-247-1635, www.physics.ohio-state.edu/undergrad/GRASP.

Health Rocks

Health Rocks, a series of healthy decision-making educational programs, was provided in both the county and city school systems in Gallia County. Trained teen presenters taught elementary age students a variety of lessons on living healthy and making good decisions. In Meigs County, Teen Leaders contributed 150 service hours as Health Rocks Teen Mentors in the after-school programs. The teens taught and mentored school-age youth about making positive decisions about drugs, alcohol, and tobacco in a 6-week program.

Participating Schools: Gallia County: Gallia County Local, Gallipolis City. Meigs County: Eastern Local, Meigs Local, Southern Local.

Ohio State Contact: Meigs County, OSU Extension, 740-992-6696.

Josh Project

Ohio State University Extension Lucas County's 4-H Youth Development Program has established a partnership with The Josh Project, a faith-based nonprofit organization that teaches youth a necessary life skill, swimming. The target audience is urban minority youth because the fatal drowning rate of African American children ages 5-14 is 3.2 times that of Caucasian children.

Participating Schools: Lucas County: Toledo City.

Ohio State Contact: OSU Extension, www.joshproject.org/.

Learning in Fitness and Education through Sports (LiFE Sports)

Learning in Fitness and Education through Sports (LiFE Sports) is designed to foster social competence among youth through their involvement in sport, fitness, and educational activities. This youth development initiative is built upon a historical community outreach program operating at Ohio State (National Youth Sport Program). The program serves approximately 600 predominately urban and underserved youth from the greater Columbus area during a 4-week summer day camp. Campers participate in a variety of sport and education activities throughout each day, which are infused with curriculum targeting the development and enhancement of social competence (i.e., self-control, effort, teamwork, and social responsibility). Campers have the opportunity for daily interaction with Ohio State students, student-athletes, and teachers from the community; transportation to and from camp; and breakfast and lunch. Sports clinics are also provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites and the Ohio State University campus. The LiFE Sports team also partners with Undergraduate Admissions and First Year Experience, the P-12 Project and Economic Access Initiative to provide participants with college access and career exploration activities. The LiFE Sports program is supported in part by an Excellence in Engagement grant from the Office of University Outreach and Engagement.

Participating Schools: Schools in Franklin County.

Ohio State Contact: College of Social Work, 614-292-6934, www.osulifesports.org. Ohio State Partners: Department of Athletics, P-12 Project, Office of Academic Affairs; School of Physical Activities and Educational Services, College of Education and Human Ecology; Office of Undergraduate Admissions and First Year Experience, Economic Access Initiative, Office of Academic Affairs; Department of Recreational Sports, Office of Student Life. External Partner: Boys and Girls Club of Columbus.

Learning the Importance of Hand Washing

After a lesson on the importance of hand washing, students used the Glow Germ machine to check to see how well they washed their hands.

Participating Schools: Fayette County: Miami Trace Local—Miami Trace Elementary, Miami Trace Middle. Washington Court House City.

Ohio State Contact: Fayette County, OSU Extension, 740-335-1150.

Ohio Optometric Association Realeyes™ Classroom Initiative

The Realeyes™ curriculum teaches students how we see, the importance of vision in the learning process, the importance of eye health and safety, and the importance of routine vision examinations for students and their families. They accomplish this in different age appropriate ways. Each presentation is very interactive and fun for the students. Pre-K - Kindergarten: Sammy Safe-Eyes Students are introduced to Sammy Safe-Eyes, a lovable character that helps explain how our vision works and how to take care of the eyes. Story-time, games, songs and other interactive activities reinforce basic concepts related to the eyes. 30 minutes. 1st-2nd grade: The Adventures of Rhett & Tina This curriculum uses a video puppet show through the presentation. It also includes student activities like penlight demonstrations of the pupil shrinking, students wearing glasses that distort their vision, tongue twisters, Simon Says type games, group activities and more. 45 minutes. 3rd-5th grade: The Case of Vinny Vision This curriculum uses a video of a private eye trying to solve the case of Vinny Vision. Students help the private eye understand the clues by solving optical illusions along the way in a packet they each get to keep. They also try the penlight activity to see how the pupil shrinks as they learn how the eye works. This is the most popular presentation as the kids have so much fun with the optical illusions as they are learning about vision. 45 minutes. 6th-8th grade: Vision Impossible This curriculum goes more in depth on how the eye works as well as uses vision simulator cards to demonstrate various common eye diseases. They follow a humorous video of spies trying to recover four individuals who are being held hostage. The students must figure out information about the eyes to understand why they are being held and to save them. It also includes the penlight activity. 45 minutes. 9th-12th grade: Government Operation Optics Development In this individual, online curriculum students have recently been offered a job with the United States military in the Research & Development Department. R&D's latest objective is to develop a vision aid device that can operate in the water, air and on land. In order for this dream to become reality, much research is necessary. Students will analyze vision to determine what components this new innovation must possess in order to have top-notch visual capabilities. Students will learn about eye anatomy, the visual process, vision disorders, and the future of eye care as they gain an understanding of the visual process. Curriculum is available online in the Student section.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: College of Optometry, 614-292-2020, ohio.aoa.org/prebuilt/RealEyes/RealeyesHome.html. External Partner: Ohio Optometric Association.

Operation Diabetes Education

The Ohio State University chapter of the American Pharmacists Association Academy of Student Pharmacists organizes and conducts a middle-school educational program through Operation Diabetes. Recognizing the growing trend of diabetes in adolescents, student pharmacists collaborated with the Central Ohio Diabetes Association to create an interactive diabetes presentation on Type 2 diabetes, a skit describing the pathway of sugar in the body, and a discussion on the complications and prevention of the disease. In 2008-2009, Operation Diabetes Education was presented by the Operation Diabetes Committee and over 60 student pharmacist volunteers to nearly 1,400 fifth, sixth, seventh, and eighth graders at 7 schools across central Ohio including four new events in the Columbus City Schools. The committee would like to continue to expand this program to new schools across central Ohio.

Participating Schools: Available to middle schools in Ohio.

Ohio State Contact: College of Pharmacy, www.pharmacy.ohio-state.edu/ASP/operation_diabetes/. Ohio State Partner: College of Education and Human Ecology.

OSU Clinical Research Center Experiential Education Program

The Ohio State University Center for Clinical and Translational Science (CCTS) hosted 21 visiting scientists from Columbus City Schools on May 1, 2009. The scientists – who were sixth, seventh, and eighth graders from Monroe Middle School – learned about research design and measurement in the areas of nutrition and exercise in order to answer the question, Are sixth-grade students at Monroe more fit than seventh- or eighth-grade students? The field trip actively engaged the Monroe scientists in four learning stations at OSU's Clinical Research Center (CRC). The stations were designed and led by CRC staff and an impressive cohort of nutrition, dietetics, and exercise undergraduate students. Each station included handouts, mini-lectures, and hands-on activities designed to reinforce the learning objectives. The stations ranged from learning how to measure various aspects of fitness to measuring a participant's diet.

Participating Schools: Franklin County: Columbus City—Monroe Alternative Middle. Additional schools could be served if interest and funding are available.

Ohio State Contact: Center for Clinical and Translational Science, ccts-community@osumc.edu, ccts.osu.edu/content/ccts-home. Ohio State Partners: College of Medicine, College of Nursing, College of Pharmacy, College of Optometry, College of Public Health, College of Veterinary Medicine, College of Engineering, College of Dentistry.

Starlab Planetarium

The Starlab Planetarium is a 30-60 minute trip into a different world. The students can explore the solar system, travel to the moon, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. The Starlab provides a unique learning experience for the Ohio State Lima 10-county area. \$50 first half hour, \$25 each additional 30 minutes

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, College of Education and Human Ecology, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Ford PAS.

To the Garden We Grow

A horticulture-based nutrition education program, To the Garden We Grow is an expansion of Youth EFNEP and a multidisciplinary effort between the health and nutrition and community garden/horticulture program areas of OSU Extension. This interactive, 6-week series focuses on core nutrition topics that are applicable to horticulture, gardening and environmental concepts. As part of this program, youth participants are exposed to the following subject areas: building a healthy base using MyPyramid for Kids and composition of soil; germination; identification of plant parts; proper seeding of a plant (through this program, youth have the opportunity to grow their own vegetables); fruits and vegetables; whole grains; protein sources; worm composting; hydration; recycling; food safety/hand washing; and good bugs versus bad bugs in the garden. The curriculum is adaptable to a variety of age groups and settings, although access to a garden site is paramount to the success of the program. Each session also includes 15 minutes of group physical activity and 15 minutes of garden exploration. A taste test of a fresh fruit or vegetable is also part of every lesson.

Participating Schools: Schools in Cuyahoga County. Districts, community sites, or early childcare sites serving limited-resource youth (at least 51% of the youth must qualify for free or reduced price school lunch/breakfast).

Ohio State Contact: Cuyahoga County, OSU Extension, cuya@ag.osu.edu.

MATHEMATICS

Math and Science Club

The club aims to improve students' academic skills and increase their knowledge of math and science. Through monthly meetings, the club challenges students (grades 4-7 and 8-12) to develop critical thinking, problem solving, and comprehension and to understand mathematical principles and physical sciences while having fun. Activities are also designed to increase the awareness of students of color regarding career opportunities in math- and science-related careers.

Participating Schools: Schools in Franklin County.

Ohio State Contact: OSU Medical Center, 614-293-5972, aaas.osu.edu/aaascec/programs/default. Ohio State Partners: College of Arts and Sciences, African American and African Studies Community Extension Center and Division of Natural and Mathematical Sciences; College of Medicine.

Mathersize Summer Mathematics Camp

Mathersize is a weeklong day camp intended for middle-grades girls (entering grades 4-7). The purpose of the camp is to help all interested girls—those who are struggling in mathematics as well as those who already enjoy and are successful in mathematics—learn to reason through mathematics activities in a supportive community-like environment. The curriculum emphasizes mathematical processes (problem solving, communication, representation, connections, and proof) through integrated content and collaboration. Lessons connect mathematics to the fabric arts, technology, science, and writing. The girls develop positive dispositions toward mathematics, an appreciation of the presence of mathematics in their world, and skills to communicate and network around mathematics. Activities include playing games of logic and probability; integrating literature, science, and the arts into mathematics; and completing building projects.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Paul the Apostle Elementary; Dublin City—Glacier Ridge Elementary, Mary Emma Bailey Elementary; Grandview Heights City—Grandview Heights Middle, Thomas A. Edison Intermediate. Hamilton County: Summit Country Day School. Licking County: Heath City—Stevenson Elementary; Newark City—Hillview Elementary, Legend Elementary; North Fork Local—Newton Elementary. Perry County: Northern Local—Sheridan Middle. Out of state: Platte-Geddes Elementary (MT).

Ohio State Contact: Mathematics Education, School of Teaching and Learning, College of Education and Human Ecology, Ohio State Newark, 740-366-9203, newark.osu.edu/derchick/mathersize.

MENTORING AND TUTORING

Adopt-A-School

Adopt-A-School is a student organization through which Ohio State student volunteers have tutored and mentored at Indianola Middle School since 1995. By working in the same classroom for the entire quarter, tutors build relationships with the students and a system with the teacher. University Honors and Scholars students were involved in tutoring, scheduling, logistics, and volunteer training. Hilliard CARES (Community Academic Review and Enrichment Saturdays) is a partnership with the Hilliard City Schools in which Adopt-A-School's volunteers tutor K-5 students from the district's 13 elementary schools on Saturday mornings. The focus of this program is typically on reading or math. Cities in Schools, a local nonprofit agency, helped coordinate Adopt-A-School.

Participating Schools: Franklin County: Columbus City—Indianola Middle; Hilliard City elementary schools.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-688-5551, adopt-a-school.org.ohio-state.edu/index.php.

Buckeye Mentoring Hub

This partnership involves Ohio State students in mentoring public school students, allowing them to apply the educational strategies they study. Since 2002, the hub has recruited, trained, and placed over 1,900 student mentors. In 2009-10, more than 350 Ohio State students served as mentors and tutors weekly for children, the majority from disadvantaged circumstances, in elementary, middle, and high schools and community sites. Some worked with Spanish-speaking, Russian-speaking, or Somali immigrant children, helping ease their transition to a new country. Partners include Big Brothers Big Sisters, Columbus Mentoring Initiative, Godman Guild, the Mentoring Center of Central Ohio, Ohio State Center for Student Leadership and Service, and OSU Extension. The partners provided recruitment, screening, training, placement, and oversight to ensure a high-quality experience for mentors and mentees. Mentors received training on communication skills, building relationships, and bridging cultures. The students served as positive role models, provided resources for college access, tutored and helped with homework, listened, and encouraged positive behavior.

Participating Schools: Franklin County: Columbus City—Clinton Elementary, Literature Based Alternative Elementary at Hubbard; South-Western City—Prairie Norton Elementary, Holt Crossing Intermediate, Norton Middle.

Ohio State Contact: Office of Student Life, 614-247-7792, osumentor@osu.edu, www.mentoringcenterco.org/buckeyementor.htm. External Partner: Mentoring Center of Central Ohio.

Community Service Work-Study Program

The Ohio State Mansfield Community Service Work-Study Program partners annually with local school districts to place federal work-study eligible students in public school classrooms as teacher assistants/tutors. As much as possible, students are placed in jobs relating to their majors. Students are paid an hourly wage through the federal work-study program. Usually, there are 15-18 students placed annually.

Participating Schools: Crawford County: Colonel Crawford Local. Morrow County: Northmor Local. Richland County: Madison Local, Mansfield City, Shelby City.

Ohio State Contact: Career Services & Community Service Work-Study, Ohio State Mansfield, 419-755-4234, www.mansfield.ohio-state.edu/careerservices/servstudentalum.htm.

Fisher CARES Tutors

Members of Fisher CARES, an undergraduate business student organization focused on service, tutor weekly at St. Joseph's Montessori School. They help elementary and middle school students complete their assignments in math, reading, spelling, and Spanish. At Windsor Academy, they help fourth, fifth and sixth graders with their science fair projects.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Joseph's Montessori Elementary; Columbus City—Windsor Elementary.

Ohio State Contact: Fisher CARES, Fisher College of Business, 614-378-7449, 614-292-2715, groups.cob.ohio-state.edu/fisher-cares/.

Girls Circle

The Girls Circle Project is a service-based, year-long immersion project that trains college women to become Girls Circle facilitators and run Girls Circles in Columbus-area schools or agencies with middle or high school-aged girls. This project gives college women the opportunity to grow, learn, and challenge themselves through training, facilitation, and experiences working with adolescent and teenage girls. The Girls Circle model, a structured support group for girls from 9-18 years, integrates relational theory, resiliency practices, and skills training in a specific format designed to increase positive connection, personal and collective strengths, and competence in girls. It aims to counteract social and interpersonal forces that impede girls' growth and development by promoting an emotionally safe setting and structure within which girls can develop caring relationships and use authentic voices. The circles have a leader as well as a well-tested, weekly curriculum and evaluation methodology. The focus is on discussion, decision-making skills and critical thinking. In the 2009-10 academic year 35 women ran 15 circles in Columbus-area schools and organization, serving approximately 160 girls

Participating Schools: Franklin County: Columbus City—Arlington Park Elementary, Indianola Informal K-8, Parkmoor Elementary; Grandview Heights City—Grandview Heights High; New Albany-Plain Local—New Albany Middle School; Reynoldsburg City—Waggoner Road Middle; independent/charter—W.C. Cupe Community, Wellington School, Pschtec High.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794, www.girlscircle.com. Ohio State Partner: Office of Academic Affairs/Economic Access Initiative. External Partners: YWCA, Columbus Housing Partnership.



Grandletters Intergenerational Pen Pal Program

Students and senior citizens exchanged letters on topics that explored personal experiences, traditions, and friendships. The program was intended to develop literacy/letter-writing skills and create a student-senior mentoring relationship. Evaluation of the program has demonstrated that youth and adult participants gained valuable written communication skills, developed positive relationships with members from different generations, and had the opportunity to practice and value service to others. In Licking County, the Grandletters program concluded its fourth year with 58 fourth-grade students from Newark City Schools corresponding with their senior citizen grandparents. Students improved their writing and literacy skills and culminated the year by hosting their grandparents at a party. In Portage County, Grandletters was conducted at Tappan Elementary and Waterloo Middle School.

Participating Schools: Licking County: Newark City—Cherry Valley Elementary. Portage County: Ravenna City—Tappan Elementary; Waterloo Local—Waterloo Middle.

Ohio State Contact: OSU Extension, licking.osu.edu, portage.osu.edu.

Middle School Mentoring Program

The Middle School Mentoring Program is one of the signature outreach programs of The Todd Anthony Bell National Resource Center on the African American Male. The program is unique from other mentoring programs because it uses a group mentoring model. Undergraduate members of the BRC serve as mentors to eighth-grade African American males at Southmoor Middle School. Currently, mentors meet with the students every Friday in school. The activities range from workshops and focus groups to social and cultural field trips. This program encourages academic excellence, social and behavioral development, and a positive self esteem through consistent interaction with mentors.

Participating Schools: Franklin County: Columbus City—Southmoor Middle.

Ohio State Contact: Todd Anthony Bell National Resource Center on the African American Male, Office of Minority Affairs, 614-247-4765, oma.osu.edu/current-students/bell-resource-center/programs/middle-school-mentoring-program.php.

Positive Lifestyles Career Program

This student-based motivational speakers bureau has been serving Allen County students for over 13 years, reaching thousands of students in grades 6-12. The program is composed of African American professionals and community members interested in making a difference in the lives of youth. This program encourages students to make positive choices in the areas of career/vocational choices, personal/interpersonal relationships, academic improvement, goal setting/future planning, and life skill development.

Participating Schools: Allen County: Lima City.

Ohio State Contact: Office of Institutional Diversity, Ohio State Lima, 419-995-8806.

Pride And Life Skills Mentoring Program

The Pride And Life Skills mentoring program (PALS) is a cooperative venture between The Ohio State University at Marion, Heart of Ohio Mentoring of Marion County, and Marion City Schools to develop a mentoring program for both elementary and middle school students. PALS connects college students from the Marion campus with children in the Marion area to provide one-on-one mentoring. Heart of Ohio Mentoring matches program volunteers with children and provides each a handbook to direct them through the mentoring process. College students earn one independent study credit in Psychology 693.03 or English 693.03 per quarter by attending mentoring sessions regularly, attending meetings, and writing a report about their mentoring activities at the end of each quarter.

Participating Schools: Marion County: Marion City.

Ohio State Contact: Department of Psychology, College of Arts and Sciences, Ohio State Marion, 740-725-6109, 740-725-6152. Ohio State Partner: Department of English. External Partner: Heart of Ohio Mentoring of Marion County.

Summer Reading Clinic

Ohio State Lima offers a Summer Reading Clinic to students in grade K-9. The clinics include approximately 20 hours of individual or paired tutoring time for primary and middle childhood students. Each student's reading ability is assessed, and lessons are designed to meet each student's needs. The program objectives are to (1) help children develop a love of reading and books; (2) increase the amount of time the children spend reading and sharing books at home with family members and friends; and (3) help the children improve their reading skills. The instructors in the reading clinic are Master of Education students in the Ohio State Lima Early Childhood and Middle Childhood Teacher Education Program. Faculty in the Ohio State Lima Education Program supervise all assessment and instruction. Ohio State Lima Summer Reading Program works with primary students enrolled in the Lima YWCA Summer Day Camp Program and with middle childhood students from the Lima-Allen County area.

Participating Schools: Allen County: Lima City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Lima, 419-995-8641. External Partner: YWCA-Lima.

SCIENCE

4-H School Enrichment Programs

School Enrichment projects are a way to provide nontraditional 4-H programming to youth. 4-H staff work with teachers by providing training and curriculum that teaches science, language arts, and other subjects through hands-on experiential learning. An effort is made to align programs with Ohio Academic Content Standards. Annually, over 81,000 youth from more than 70 counties are involved with in-school and after-school programs. Often, training is provided for classroom teachers and kits of materials and equipment are provided to assist the teachers in hands-on activities contained in the curriculum. In addition, classroom partnerships are established to support classroom instruction, enrich the learning environment, and provide program closure. (Includes Beans about Water, Breads of the Harvest, ChickQuest, Fishy Science, GO Plants!, Rockets Away, and Weather Together—see separate entries.)

Participating Schools: Available to all districts/schools/youth in Ohio. Not all programs are offered in all counties.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-247-8150, www.ohio4h.org/sciencealive/.

4-H Space Adventure Camp

Now in its 18th season, Space Adventure Camp is for boys and girls ages 11-13 and/or students who were fifth, sixth, or seventh graders during the past school year. Participants explore the world of flight and science as they build and test flying machines, conduct computer flight simulations, learn about the principles of aerodynamics, and gain an overview of the development of the space flight program. The camp is a cooperative venture between Ohio State University Extension and Marietta College. The campers living on the Marietta College campus, learning from college professors; Campers are supervised by 4-H camp counselors.

Participating Schools: Available to all Ohio youth; membership in Ohio 4-H is not a requirement.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-6942, jackson.osu.edu/events/4h-space-adventure-camp.

A Bug's World

Over 1,100 students registered for 8th annual A Bug's World on OARDC's Wooster campus last spring to learn about insects and their other arthropod relatives. Sessions included such topics as Aquatic Insects; the Bug Zoo; Busy, Busy Bees; Café Insecta; Collecting & Preserving Insects; Critters Up Close; Insects & Host Plants, Insects in Ecology, Insect Olympics, Insect Friends, Pollination Jubilation, Whiz-Bang Science Show and Who's Been Eating My Lunch? Faculty and staff from OARDC's entomology department and Computing and Statistical Services conducted all the sessions, and the sessions connected with all six of the state's science content standards and addressed around 70% of the state's science benchmarks. Since the program began in 2003, more than 6,000 students have participated in A Bug's World.

Participating Schools: Available to all districts/schools/youth in Ohio. Only a limited number of districts/schools/youth can be served.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview3.asp?id=1207.

Antarctic Rock Boxes

The United States Polar Rock Repository (USPRR) provides a hands-on set of activities and samples for teachers from within the continental United States. Teachers can request to borrow a rock box that includes samples of rocks, minerals, and fossils from polar regions, as well as trade books and curricular materials developed by teachers for a range of grade levels. The rock box is reserved online and held with a \$50 deposit. Once the rock box and its contents have been returned, the deposit is refunded. Shipping is paid (both ways) by the USPRR. The rock box is a plywood box that has actually been used by a scientist in the Polar Regions, so it is a learning object in and of itself. Teachers can keep the rock box up to three weeks. Demand is higher in the fall so it is wise for teachers to place their requests early in the year. \$

Participating Schools: Available to schools, youth programs, museums etc. in the contiguous United States.

Ohio State Contact: Byrd Polar Research Center, U.S. Polar Rock Repository, Office of Research, 614-292-5348, www.bprc.osu.edu/rr.

Astronomy at COSI

The Ohio State Astronomy Department has teamed with COSI experts in informal science education to offer education and outreach programs for middle school students, high school students, and teachers. To date, 50 schools and more than 400 students have participated. The field trips begin with an interactive lecture given by an Ohio State astronomy faculty member designed to teach basic astronomical/physical principles needed to explain an astronomical discovery. After the lecture, the students are led through hands-on activities. At the same time, teachers are given individual training specific to their curriculum needs by the Ohio State astronomy professor. Astronomy faculty also work closely with the COSI Academy, a group of high school students highly interested in pursuing science careers.

Participating Schools: Schools in central Ohio.

Ohio State Contact: Department of Astronomy, College of Arts and Sciences, 614-292-5812.

Beans about Water School Enrichment Program

In this four-lesson curriculum for fifth- to seventh-grade classrooms, students, like working scientists, use the plentiful soybean as a tool to study the properties of water and changes in matter. Activities include testing surface tension, measuring density, dissolving solids into solutions, and changing liquids to solids. Lessons can be used in sequence or on a stand-alone basis. The teacher manual includes lesson plans and camera-ready student handouts.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ag.ohio-state.edu/~scialive/beans.html.

Biological Sciences Greenhouse and Insectary Mobile Learning Lab

Reduction in school funding? Transportation costs an issue? We can come to you! The Biological Sciences Greenhouse and Insectary's Mobile Learning Lab is perfect for individual classrooms, scout troops, and after-school enrichment academies. Programs help fulfill the Ohio Academic Standards in areas such as plant habitats, endangered species and plant structures and functions. The Insectary focuses on areas such as animal instincts and defense mechanisms, insect habitats and relationships between plants and insects. See insects and arthropods such as giant millipedes, tarantulas, walking sticks and hissing cockroaches! Hands on activities with plants and insects! Additional learning materials provided to continue classroom discussions after the live demonstrations are complete. Meets or exceeds many Ohio Academic Content Standards in Life Sciences, Earth and Space Science, Science and Technology, Physical Sciences, and Scientific Inquiry. Classroom Presentations \$50 for 1 hour presentation, your choice of greenhouse or insect presentation. Maximum of 30 students per session. \$75 for 1½ hour for both greenhouse and insect presentation. Maximum of 30 students per session. Transportation fee: \$25 flat rate.

Participating Schools: Available schools in Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union counties.

Ohio State Contact: Department of Plant Cellular and Molecular Biology, College of Arts and Sciences, 614-688-5993, www.biosci.ohio-state.edu/~plantbio/greenhouse/.

Biological Sciences Greenhouse and Insectary Tours

The Biological Sciences Greenhouse conservatory houses plants native to tropical and desert environments. The collection has an estimated 1,200 specimens representing over 100 plant families from around the world, including some specimens rarely found in cultivation. The Insectary rears 120 species of insects and arthropods, including Hissing Cockroaches, Giant African Millipedes, and Maclay's Specter Walking Sticks. Tours may be arranged for local school groups (up to 40 people at a time).

Participating Schools: Franklin County: Columbus Catholic Diocese—Immaculate Conception Elementary, St. Michael's School, Trinity Elementary; Columbus City—Sullivant Elementary, Northland High; Upper Arlington City—Wickliffe Elementary; Worthington City—Emerson Elementary; independent—Clintonville Academy; Wellington School; Dublin Homeschool Group, Early Childhood Learning Community, Natural Learning, Montessori Kindergarten Readiness Program, Creative Play Center, Grandview Heights Kids Club, North Broadway Children's Center, The Gathering Place, Maynard Avenue United Methodist Church, 3 other home school groups.

Ohio State Contact: Department of Plant Cellular and Molecular Biology, College of Arts and Sciences, 614-688-5593, www.biosci.ohio-state.edu/~plantbio/greenhouse/.

Bluffsvew Elementary 6th-Grade Biology Heart Dissection

Sixth-grade students participated in heart dissection, observing external and internal cardiac structures. They were supervised by first-year Circulation Technology students who provided guidance direction and explanation. This relationship has been continuous for more than 10 years. The Circulation Technology students demonstrated knowledge of their understanding of cardiac anatomy. The students worked with internal resources for donations of materials to save the school time and money. The elementary students are inquisitive, ask questions, and challenge the CT students to think about the answer. The outcome is a successful dissection course that teaches sixth-grade students cardiac anatomy, adds a real-world perspective, and saves them some frustration often experienced in hands-on laboratory activities.

Participating Schools: Franklin County: Worthington City—Bluffsvew Elementary.

Ohio State Contact: Circulation Technology Division, OSU Medical Center, 614-292-7261.

Breakfast of Science Champions

The Breakfast of Science Champions introduces middle school students to scientific careers and college opportunities by bringing a small group of seventh and eighth graders from a number of different schools to explore the Ohio State campus. In the past, campus visits are offered on one day in November and one day in February. Students meet faculty and graduate students from the sciences while enjoying a continental breakfast, tour labs, participate in demonstrations, and learn about science careers.

Participating Schools: Cuyahoga County: Independence Local—Independence Middle. Franklin County: Columbus City—Arts IMPACT Middle, Champion Middle, Columbus Africentric Early College, Ecole Kenwood French Immersion, Franklin Alternative Middle, Monroe Alternative Middle, Southmoor Middle, Wedgewood Middle; private—Calumet Christian School. Scioto County: Washington-Nile Local—Portsmouth West Middle. Summit County: Manchester Local—Manchester Middle.

Ohio State Contact: Office of Academic Affairs, 614-688-5557, asccommunitypartnerships.osu.edu/ScienceChampions.cfm. Ohio State Partners: Center for Emergent Materials, Byrd Polar Research Center, Biological Sciences Greenhouse, Department of Human Nutrition, Department of Mechanical and Aeronautical Engineering, N.E.U.R.O. External Partners: Middle School Gifted and Talented Program, Columbus City Schools

Byrd Polar Research Center School Visits

Byrd Polar Research Center staff visit schools to make presentations on such topics as rocks, minerals, fossils, mineral identification, geology, geocaching, glaciers, Antarctica, and polar science as a career.

Participating Schools: Franklin County: Columbus Catholic Diocese—All Saints Elementary, Holy Spirit Elementary, Our Lady of Perpetual Help Elementary; Columbus City—Alpine Elementary, Fifth Avenue Elementary, Olde Orchard Elementary, West Broad Elementary, Indianola Middle, Dublin City—Deer Run Elementary; Hilliard City—Hilliard Horizon Elementary; Upper Arlington City—Wickliffe Elementary, Upper Arlington International Baccalaureate; Westerville City—Emerson Magnet Elementary, Blendon Middle; independent/charter—Columbus Academy, Graham School, Ohio School for the Deaf. Pickaway County: Teays Valley Local—Teays Valley Middle. Stark County: Plain Local—Oakwood Middle. Union County: North Union Local—North Union Elementary. Out of state: American School in Japan.

Ohio State Contact: Byrd Polar Research Center, Office of Research, 614-292-6646, bprc.osu.edu/education/.

Center for Emergent Materials Education and Outreach

As part of its research outreach effort, the Center for Emergent Materials partners with existing K-12 outreach initiatives to increase their capacity and to incorporate materials science and engineering content into their activities. During 2009-10, the CEM collaborated with the Ohio STEM Ability Alliance, Breakfast of Science Champions, Columbus School for Girls, Weinland Park Elementary, Arlington Park Elementary, Blueprint: College, Baseball Day, Society of Women in Physics, and COSI to serve 5,838 K-12 students, including 2,649 girls, 3018 students from minority groups underrepresented in STEM careers, and 539 students with disabilities.

Participating Schools: Franklin County: Columbus City—Arlington Park Elementary, Weinland Park Elementary; private—Columbus School for Girls.

Ohio State Contact: Materials Science and Engineering, College of Engineering, 614-292-9548, cem.osu.edu/education-and-outreach/. Ohio State Partners: Natural and Mathematical Sciences, Department of Physics, Department of Chemistry Department of Materials Science, Department of Electrical and Computer Engineering.

Earth Sciences Lectures for Schools

An Ohio State Lima Earth Sciences professor gives presentations for schools, service organizations, and youth organizations (i.e., Girl Scouts, Boy Scouts) on the Lima campus or at their location on practically any earth sciences topic. 2008-2009 presentations: Identifying Rocks and Economic Importance of Rocks to Wayne Trace eighth-grade students; Identifying Rocks and What They Are Used For to all sixth-grade science classes at Shawnee Middle School, Lima, Ohio; Rocks: How They Form and What They Are Used For to all fourth graders at Maplewood Intermediate School, Lima, Ohio; and How We Know What We Know About Dinosaurs to all third graders at Maplewood Intermediate School, Lima, Ohio. He also developed and chaired the Fossils Event for Northwest Regional Science Olympiad held on Ohio State Lima campus.

Participating Schools: Allen County: Shawnee Local—Maplewood Elementary, Shawnee Middle. Paulding County: Wayne Trace Local—Wayne Trace High.

Ohio State Contact: School of Earth Sciences, College of Arts and Sciences, Ohio State Lima, 419-995-8208, lima.osu.edu/academics/earthSciences/.



Photo by Jodi Miller, courtesy of Communication & Technology, College of Food, Agricultural, and Environmental Sciences.

Girls Reaching to Achieve in Sports and Physics (GRASP) Summer Camp

GRASP is a 5-day summer camp for middle school girls hosted by the Ohio State University Department of Physics and the Society of Women in Physics with help from physics faculty, staff, and graduate and undergraduate students. Each day consists of hands-on, interactive physics demonstrations and projects followed by a physical activity that shows how physics relates to everyday phenomena. Ohio State undergraduate and graduate students are present at all sessions to help supervise and share their understanding and love of physics with the GRASP participants. The third annual GRASP Summer Camp was held in June 2010. Physical activities included football, ice skating, climbing wall, and archery. These activities corresponded with lectures from physics faculty on the topics of projectile motion, physics of biathlons and archery, and microwaves. Participants in the 3rd annual GRASP Camp were taken on a field trip to the Center of Science and Industry (COSI) in Columbus, Ohio, where they learned about human nutrition and body composition at the Labs in Life.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Department of Physics, College of Arts and Sciences, 614-247-1635, www.physics.ohio-state.edu/undergrad/GRASP.

GROW (Giving Research-Based Outreach that Works)

The Ohio Agricultural Research and Development Center's (OARDC's) GROW program provides opportunities for students to become engaged in science in fun, hands-on ways that allow them to reinforce what they are learning in the classroom. Opportunities available to students include participating in special events such as the Science of Agriculture and A Bug's World workshops, the Breakfast of Science Champions, summer day camps OARDC on the Road, guided campus tours, nature walks in Secrest Arboretum, visiting OARDC's Bug Zoo, and much more.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview3.asp?id=1204.

Heart School for Middle Schoolers

Middle school children from underrepresented in medicine groups (African American) were invited to the College of Medicine for an educational program on the heart. They were exposed to lectures and discussion on cardiac physiology, hands on learning about cardiac angioplasty equipment, and were proctored in a hands-on experience dissecting cattle hearts.

Participating Schools: Franklin County: Columbus City, Gahanna-Jefferson City, Upper Arlington City.

Ohio State Contact: Davis Heart and Lung Research Institute, College of Medicine, 614-293-4967.

Lima Regional Science Olympiad

Science Olympiad tournaments are academic competitions for middle and high school teams. Team members who win individual events receive medals, first- and second-place teams are awarded trophies, and top-ranked teams are invited to attend the State Science Olympiad in Columbus. The regional tournament is held annually at Ohio State Lima. On March 6, 2010, the regional tournament was attended by students representing more than 35 schools from northwestern Ohio. Registration fee of \$173 per team.

Participating Schools: Allen County: Bath Local—Bath High; Elida Local—Elida Middle; Lima City—Lima Senior High; Shawnee Local—Shawnee Middle, Shawnee High; Toledo Catholic Diocese—Lima Central Catholic High. Defiance County: Ayersville Local—Ayersville Middle, Ayersville High; Central Local—Fairview Middle; Northeastern Local—Tinora High. Fulton County: Gorham Fayette Local—Fayette Jr./Sr. High. Lucas County: Springfield Local—Springfield Middle, Springfield High; Sylvania City—Sylvania Northview High, Sylvania Southview High; Toledo Catholic Diocese—Central Catholic High, St. John's Jesuit High, St. Pius X Elementary. Toledo City—Byrnedale Junior High, Early College High, Robinson Middle, Start High, Toledo Tech, Woodward High. Paulding County: Paulding Exempted Village—Paulding Middle, Paulding High. Putnam County: Ottawa-Glandorf Local—Ottawa-Glandorf High; Toledo Catholic Diocese—Sts. Peter & Paul Elementary. Sandusky County: Toledo Catholic Diocese—St. Joseph Central Catholic. Shelby County: Anna Local—Anna Middle; Cincinnati Archdiocese—Lehman Catholic High; Fairlawn Local—Fairlawn Middle, Fairlawn High; Fort Loramie Local—Ft. Loramie Junior High; Sidney City—Sidney Middle. Williams County: Montpelier Exempted Village—Montpelier High.

Ohio State Contact: Department of Biology, College of Arts and Sciences, Ohio State Lima, 419-995-8868, lima.osu.edu/academics/outreach/ScienceOlympiad/index.php. Ohio State Partners: Chemistry, Physics, Geology, and Education Departments on OSU Lima campus.

Marion Area Science and Engineering Fair

Ohio State Marion is host to the Marion Area Science and Engineering Fair, at which approximately 200 students exhibit science and engineering projects. The best high school projects advance to the International Science and Engineering Fair. Middle school students compete for the right to advance to the Discovery Channel Young Scientist Challenge. The Marion fair involves about 70 volunteer judges (including several faculty members from Ohio State Marion) and others. The event is organized by Brian McEnnis, professor of mathematics at Ohio State Marion.

Participating Schools: Schools in Crawford, Delaware, Knox, Marion, Morrow, Seneca, Union, and Wyandot counties.

Ohio State Contact: Department of Mathematics, College of Arts and Sciences, Ohio State Marion, 614-005-6271, academic.marion.ohio-state.edu/sciencefair/MASEF.htm.

Math and Science Club

The club aims to improve students' academic skills and increase their knowledge of math and science. Through monthly meetings, the club challenges students (grades 4-7 and 8-12) to develop critical thinking, problem solving, and comprehension and to understand mathematical principles and physical sciences while having fun. Activities are also designed to increase the awareness of students of color regarding career opportunities in math- and science-related careers.

Participating Schools: Schools in Franklin County.

Ohio State Contact: OSU Medical Center, 614-293-5972, aaas.osu.edu/aaascec/programs/default. Ohio State Partners: College of Arts and Sciences, African American and African Studies Community Extension Center and Division of Natural and Mathematical Sciences; College of Medicine.

Museum of Biological Diversity Open House

This annual event enables the public, including schools, to tour this research facility and see the labs and the behind the scenes collections spaces. The Open House draws about 1,000 visitors, features special exhibits and hands-on activities for children, and also provides for classroom use supporting documentation connected to the theme.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Department of Entomology, Museum of Biological Diversity, College of Arts and Sciences, www.biosci.ohio-state.edu/~jfreuden/systematics/museum/webfiles/openhouse.htm. Ohio State Partners: Department of Evolution, Ecology and Organismal Biology, Department of Plant Molecular and Cellular Biology

North Central District Science Day

Ohio State Marion is host to the North Central District Science Day, at which approximately 200 students exhibit science fair projects and compete for the right to advance to the State Science Day competition. The North Central District Science Fair involves about 70 volunteer judges (including several faculty members from Ohio State Marion) and others.

Participating Schools: Schools in Crawford, Delaware, Knox, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Department of Mathematics, College of Arts and Sciences, Ohio State Marion, 614-005-6271, academic.marion.ohio-state.edu/sciencefair/DSD.htm.

OARDC on the Road

Thousands of students have benefited from the Ohio Agricultural Research and Development Center's OARDC on the Road program, which allows teachers to bring the science-based expertise of one of the nation's premier agricultural research organizations to their students in an educational, fun and hands-on way. In response to the financial strain many schools are experiencing, OARDC brings knowledge directly to a limited number of classrooms. Priority consideration will be given to schools whose financial situation severely affects their ability to participate in off-site field trips. I

Participating Schools: Available to any Ohio school district whose finances limit them to no more than one off-site field trip per academic year.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview.asp?id=1922.

OARDC Tours and Off-Site Visits

For schools that cannot come to campus or want a tour customized to a specific curriculum at a specific time of year, OARDC's Public Relations office can arrange custom tours at no charge for K-12 groups and conduct off-site visits for groups with special needs, such as partial-day preschool and Head Start programs and centers serving special needs students. All OARDC departments are involved in the campus tours.

Participating Schools: On-campus tours are available to all school groups; off-site visits are available only to schools whose schedule or finances do not permit them to come to campus.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview3.asp?id=1203.

Ohio Science Olympiad

The Science Olympiad is a national nonprofit organization devoted to improving the quality of science education, increasing student interest in science and providing recognition of outstanding achievement in science education by both students and teachers. The Ohio Science Olympiad program is coordinated by the Office of Continuing Education, Extended Education. Throughout the school year middle and high school teams prepare to compete in 23 different events in various science disciplines. Regional tournaments are held around the state in February and March, and winning teams advance to the state tournament held in April on the Columbus campus. In 2009-10, 277 teams participated in the state program. \$180 per team early registration; \$195 per team for late registration

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Office of Continuing Education, Office of the Senior Vice President for Outreach & Engagement, 614-688-3819, askced2@ced.osu.edu, www.ced.osu.edu/scioly. Ohio State Partners: Center for Life Sciences Education Chemistry Biochemistry Anesthesiology Supercomputer Center Edison Welding Institute Environment and Natural Resources Physics Math and Physical Science Industrial Welding and Systems Engineering. External Partners: Science Education Council of Ohio, Battelle, Texas Instruments, Cox Institute, Case Western Reserve University, U.S. Geological Survey.

Ohio State Marion Prairie Nature Center

The mission of the Marion campus Prairie Nature Center, a nine-acre reconstructed tall grass prairie, is conservation of a locally rare plant community and education through natural history lessons and prairie tours. The Prairie Nature Center offers an educational program that invites students to tour and learn about science and history on location or in the schools. The campus prairie nature center consists of a nine-acre reconstructed tall grass prairie. The mission is conservation of a locally rare plant community and education through natural history lessons and prairie tours. Several thousand people visit the prairie each year. The prairie has operated since 1977 and employs several student workers.

Participating Schools: Schools in Crawford, Delaware, Hardin, Marion, Morrow, Union, and Wyandot counties.

Ohio State Contact: Prairie Nature Center, Ohio State Marion, 614-295-6269, osumarion.osu.edu/prairie_center.

Ohio State Olentangy Eighth-Grade Rock Star Invasion

200 eighth-grade students from Olentangy Local Schools visited Ohio State to participate in hands-on science activities that review their eighth-grade science curriculum. Students visited Orton Geology Museum and the Spitz Planetarium. The Office of Undergraduate Admissions and First Year Experience also took the students on a campus tour.

Participating Schools: Delaware County: Olentangy Local.
Ohio State Contact: P-12 Project, College of Education and Human Ecology, 614-688-0474. Ohio State Partner: Office of Undergraduate Admissions and First Year Experience.

OSU Clinical Research Center Experiential Education Program

The Ohio State University Center for Clinical and Translational Science (CCTS) hosted 21 visiting scientists from Columbus City Schools on May 1, 2009. The scientists – who were sixth, seventh, and eighth graders from Monroe Middle School – learned about research design and measurement in the areas of nutrition and exercise in order to answer the question, Are sixth-grade students at Monroe more fit than seventh- or eighth-grade students? The field trip actively engaged the Monroe scientists in four learning stations at OSU's Clinical Research Center (CRC). The stations were designed and led by CRC staff and an impressive cohort of nutrition, dietetics, and exercise undergraduate students. Each station included handouts, mini-lectures, and hands-on activities designed to reinforce the learning objectives. The stations ranged from learning how to measure various aspects of fitness to measuring a participant's diet.

Participating Schools: Franklin County: Columbus City – Monroe Alternative Middle.

Ohio State Contact: Center for Clinical and Translational Science: College of Medicine, College of Nursing, College of Pharmacy, College of Optometry, College of Public Health, College of Veterinary Medicine, College of Engineering, College of Dentistry; ccts-community@osumc.edu, ccts.osu.edu/content/ccts-home.

Rockets Away School Enrichment Program

This three-unit study of rocketry science sends fourth- through sixth-grade students on an adventure in math, engineering, aerospace, and physics. Lessons in motion, gravity, and aerodynamics lead students to the building and launching of their own rockets. Activities include understanding and applying Newton's three Laws of Motion, observing the relationship between force and mass, testing turbulence, exploring stability and motion, and constructing and launching a two-liter bottle rocket. An optional IBM-compatible computer diskette presents problem simulations and design and flight configurations for two-liter bottle rockets.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, extension.osu.edu/rockets/.

Science Clubs

The Windham Junior High Science Clubs were formed by creatively working with local education systems to meet proficiency standards in science, engineering, and technology. Two classes of 25 youth met once a week for 6 consecutive weeks to cover topics in chemistry, physical science, aerospace science, Newton's Laws (force and motion), environmental science, and the science of flight. Outcomes included an opportunity for mastery as well as an opportunity to explore future career choices.

Participating Schools: Portage County: Windham Exempted Village—Windham Junior High.
Ohio State Contact: Portage County, OSU Extension, portage.osu.edu.

Science of Agriculture Workshops

OARDC's Science of Agriculture workshops bring students from kindergarten to seniors in high school to the Wooster campus to participate in hands-on science and real-world experiments with OARDC researchers from such departments as plant pathology; horticulture and crop science; food, agricultural and biological engineering; food animal health, computing and statistical services.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Agricultural Research and Development Center, College of Food, Agricultural, and Environmental Sciences, 330-202-3507, tours-oardc@osu.edu, www.oardc.ohio-state.edu/visitor/pageview2.asp?id=1205.

Science Talk Lectures

An Ohio State Marion physics professor offers Science Talk learning lectures to area school systems, businesses, organizations, and the community on the following subjects: The Whole 8.2296m (about the International System of Units and Standardization); Energy and the Environment; Nuclear Energy, Is It Viable?; Nuclear Energy, the Davis Bessy Story; Population and the Greenhouse Effect; What Entering College Students Should Know About the Atom; What Nuclear Physics Do Teachers Need to Know?; The Particle Zoo; The Newest Knowledge about Nuclear Science; and Plasmas and Fusion, Origin and Fate of the Universe.

Participating Schools: Available to central Ohio schools.

Ohio State Contact: Department of Physics, College of Arts and Sciences, Ohio State Marion, 740-725-6250.

Starlab Planetarium

The Starlab Planetarium is a 30-60 minute trip into a different world. The students can explore the solar system, travel to the moon, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. The Starlab provides a unique learning experience for the Ohio State Lima 10-county area. \$50 first half hour, \$25 each additional 30 minutes.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, College of Education and Human Ecology, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Ford PAS.

State Science Day

Hosted by The Ohio State University Office of Continuing Education, State Science Day is the academic equivalent of a state athletic championship and one of the largest of its kind in the nation. Judges evaluate the scientific research and communication skills of student awardees who advance to the state-level competition from more than 16 district science days. Among the many awards at State Science Day are Governor's Awards for Excellence in Student Research in agriculture and food science, biotechnology, environmental science, information science and technology, manufacturing sciences, materials science, recycling and litter prevention, and water resources research. On May 8, 2010, over 1,150 fifth–12th-grade science, technology, engineering, and mathematics (STEM) students representing 317 schools from 65 Ohio counties exhibited their science research projects at the 62nd annual State Science Day. Held at The Ohio State University's French Field House, the event honored students with scholarships and awards valued at more than \$3.7 million from nearly 100 sponsors.

Participating Schools: Adams County: Adams County/Ohio Valley Local—North Adams Elementary, North Adams High, West Union High; Manchester Local—Manchester High (Adams). Allen County: Bath Local—Bath Middle; Bluffton Exempted Village—Bluffton Middle; Toledo Catholic Diocese—St Charles Elementary. Ashland County: Ashland City—Taft Elementary (Ashland); Cleveland Catholic Diocese—St Edward Elementary; Mapleton Local—Mapleton High; private/independent—Ashland Christian Elementary. Ashtabula County: Geneva City—Geneva Jr High, Geneva High. Athens County: Athens City—Morrison Elementary, West Elementary, Athens Middle, Athens High. Auglaize County: St Marys City—Memorial High. Belmont County: St Clairsville-Richland City—St Clairsville Middle; Steubenville Catholic Diocese—St Mary Central Elementary, St Mary Elementary. Brown County: Eastern Local—Eastern Middle; Georgetown Exempted Village—Georgetown Elementary, Georgetown Jr/Sr High; Western Brown Local—Hamersville Elementary. Butler County: Cincinnati Archdiocese—Mother Teresa Catholic Elementary; Fairfield City—Fairfield Middle; Lakota Local—Hopewell Jr High; Monroe Local—Monroe High. Champaign County: Mechanicsburg Exempted Village—Mechanicsburg High. Clark County: Cincinnati Archdiocese—Catholic Central Elementary, Catholic Central High; Clark-Shawnee Local—Rockway Elementary; Southeastern Local—Miami View Middle; Springfield City—Springfield High; private/independent—Nightingale Montessori Inc Elementary, Ridgewood Elementary, Emmanuel Christian Academy High. Clermont County: Cincinnati Archdiocese—St Andrew/St Elizabeth A Seton Elementary, St Columban Elementary, St Louis Elementary, St Thomas More Elementary. Clinton County: Blanchester Local—Blanchester High; Wilmington City—Rodger O. Borrer Middle, Wilmington High. Columbiana County: Youngstown Catholic Diocese—St Aloysius Elementary. Coshocton County: Columbus Catholic Diocese—Sacred Heart Elementary; Coshocton City—Central Elementary, Lincoln Elementary, Coshocton High; Ridgewood Local—Ridgewood High; River View Local—River View Middle. Cuyahoga County: Cleveland Catholic Diocese—Incarnate Word Academy Elementary, St Ignatius Elementary, St Raphael Elementary, St Albert the Great Elementary, Beaumont School, Padua Franciscan High, St Peter Chanel High; Orange City—Orange High; Solon City—Solon Middle Solon High; private/independent—Birchwood Elementary, Hathaway Brown High. Defiance County: Hicksville Exempted Village—Hicksville High; Northeastern Local—Tinora Jr High, Tinora High. Delaware County: Big Walnut Local—Harrison Street Elementary, Hylan Souders Elementary, Big Walnut Middle, Big Walnut High; Buckeye Valley

Local—Buckeye Valley Local Middle; Columbus Catholic Diocese—St Mary Elementary; Delaware City—Frank B Willis Intermediate Middle, John C Dempsey Middle, Rutherford B Hayes High; Olentangy Local—Hyatts Middle, Olentangy Liberty High; private/independent—Village Academy High. Fairfield County: Bloom-Carroll Local—Carroll Middle, Bloom-Carroll High; Columbus Catholic Diocese—St Mary Elementary; Fairfield Union Local—Fairfield Union High; Liberty Union-Thurston Local—Liberty Union Middle; private/independent—Fairfield Christian Academy Elementary. Franklin County: Columbus Catholic Diocese—Holy Spirit Elementary, Immaculate Conception Elementary, Our Lady of Perpetual Help Elementary, St Agatha Elementary, St Andrew Elementary, St Cecilia Elementary, St Michael Elementary, St Paul Elementary, St Timothy Elementary; Columbus City Schools—Dominion Middle, Whetstone High; Dublin City—Ann Simpson Davis Middle, Henry Karrer Middle, John Sells Middle, Dublin Coffman High, Dublin Scioto High; Upper Arlington City—Hastings Middle, Upper Arlington High; Westerville City—Heritage Middle, Walnut Springs Middle; Worthington City—Colonial Hills Elementary, Thomas Worthington High, Worthington Kilbourne High; private/independent—Columbus Academy High, Harvest Preparatory School High, Horizon Science Academy Columbus, Fulton County: Pettisville Local—Pettisville High. Geauga County: Cleveland Catholic Diocese—Notre Dame-Cathedral Latin High; West Geauga Local—West Geauga High. Greene County: Beavercreek City—Ferguson Middle, Herman K Ankeney Middle; Cincinnati Archdiocese—St Brigid Elementary; Fairborn City—Baker Middle, Fairborn High; Sugarcreek Local—Bellbrook Middle School; private/independent—Dayton Islamic School Inc Elementary, Xenia Christian High. Guernsey County: Steubenville Catholic Diocese, St Benedict Elementary, Hamilton County: Cincinnati Archdiocese—All Saints Elementary, Guardian Angels Elementary, Our Lady of Lourdes Elementary, Our Lady of Visitation Elementary, St Bernard Elementary, St Gertrude Elementary, St Jude Elementary, St Mary Elementary, McNicholas High, St Xavier High; Cincinnati Public—Walnut Hills High; Forest Hills Local—Nagel Middle, Anderson High, Turpin High; Sycamore Community City—Sycamore High. Hardin County: Ada Exempted Village SD—Ada High. Henry County: Patrick Henry Local—Patrick Henry Middle, Patrick Henry High. Highland County: Fairfield Local—Fairfield Local Middle; Lynchburg-Clay Local—Lynchburg-Clay High. Huron County: Toledo Catholic Diocese—Norwalk Catholic School High; Willard City—Willard Middle. Jackson County: Jackson City—Jackson Middle, Jackson High. Jefferson County: Steubenville Catholic Diocese—Bishop John King Mussio Junior High, Catholic Central High. Knox County: Mount Vernon City—Mount Vernon High. Lake County: Mentor Exempted Village—Mentor High; Perry Local—Perry Middle. Lawrence County: Chesapeake Union Exempted Village—Chesapeake Middle, Chesapeake High; Fairland Local—Fairland Middle, Fairland High; Rock Hill Local—Rock Hill Middle; South Point Local—South Point Middle, South Point High; Steubenville Catholic Diocese—St Joseph Central High. Licking County: North Fork Local—Utica High. Logan County: Benjamin Logan Local—Benjamin Logan Middle. Lorain County: Cleveland Catholic Diocese—St Jude Elementary; Columbia Local—Columbia Middle, Columbia High; Sheffield-Sheffield Lake City—Sheffield Middle; private/independent—Lake Ridge Academy Elementary. Lucas County: Ottawa Hills Local—Ottawa Hills High; Sylvania City—Sylvania Southview High; Toledo City—Start High; Washington Local—Whitmer High; Lucas County: Toledo Catholic Diocese—Gesu Elementary, Lial Catholic Elementary, Little Flower Elementary, St Joseph Elementary, St Patrick of Heatherdowns Elementary, Sylvania Franciscan Academy, Toledo Central Catholic High; private/independent—Trinity Lutheran Elementary, Maumee Valley Country Day High, Ohio Virtual Academy High, Toledo Islamic Academy High. Mahoning County: Canfield Local—Canfield Village

Middle; Youngstown Catholic Diocese—St Christine Elementary, St. Joseph-Immaculate Heart of Mary Elementary; Youngstown City—Chaney High. Marion County: Ridgedale Local—Ridgedale Jr/Sr High. Medina County: Cleveland Catholic Diocese—St Francis Xavier Elementary; Wadsworth City—Wadsworth High. Miami County: Cincinnati Archdiocese—Piqua Catholic Elementary; Tipp City Exempted Village—Tippecanoe Middle, Tippecanoe High. Montgomery County: Brookville Local—Brookville Middle, Brookville High; Cincinnati Archdiocese—Ascension Elementary, Immaculate Conception Elementary, Incarnation Elementary, St Albert the Great Elementary, St Christopher Elementary, St Peter Elementary, St Rita Elementary, Archbishop Alter High, Bishop Leibold E & W Campus, Carroll High, Chaminade-Julienne High; Montgomery County: Centerville City—Tower Heights Middle, Centerville High; Dayton City—Kemp Elementary, Patterson/Kennedy Elementary, Stivers School for the Arts, Thurgood Marshall High; Huber Heights City—Monticello Elementary, Rushmore Elementary, Valley Forge Elementary, Studebaker Middle; Miami Valley Career Technology Center; Trotwood-Madison City—Trotwood-Madison High; Valley View Local—Valley View Middle; private/independent—Dayton Christian School High. Muskingum County: Columbus Catholic Diocese—Bishop Fenwick Elementary. Paulding County: Paulding Exempted Village—Paulding Middle, Paulding High. Perry County: Columbus Catholic Diocese—Holy Trinity Elementary; Northern Local—Sheridan Middle, Sheridan High. Pickaway County: Circleville City—Everts Middle, Scioto Valley Local—Zahns Middle, Piketon Jr/Sr High; Western Local—Western Elementary. Putnam County: Continental Local—Continental Local Middle; Jennings Local—Fort Jennings High; Miller City-New Cleveland Local—Miller City Middle, Miller City High; Ottawa-Glandorf Local—Elementary; Ottoville Local—Ottoville High; Toledo Catholic Diocese, St Anthony of Padua Elementary. Richland County: Mansfield City—Mansfield High; Plymouth-Shiloh Local—Shiloh Middle; Toledo Catholic Diocese—St Peter Elementary; private/independent—Discovery Elementary. Ross County: Columbus Catholic Diocese—Bishop Flaget Elementary; Paint Valley Local—Paint Valley Elementary; Pickaway-Ross Career and Technology Center; Southeastern Local—Southeastern Middle; Zane Trace Local—Zane Trace Middle, Zane Trace High. Scioto County: Clay Local—Rubyville Elementary, Clay High; Minford Local—Minford High; Portsmouth City—Portsmouth Elementary, Portsmouth High; Wheelersburg Local—Wheelersburg Middle, Seneca County: Tiffin City—Columbian High. Shelby County—Cincinnati Archdiocese, Lehman High. Stark County: Alliance City—Alliance Middle, Alliance High; Canton Local—Faircrest Memorial Middle; Louisville City—

Louisville High; Minerva Local—Minerva High; Osnaburg Local—East Canton High; Plain Local—Glenwood Middle, Oakwood Middle; Sandy Valley Local—Sandy Valley High; Youngstown Catholic Diocese—Our Lady of Peace Elementary, St Louis Elementary, St Paul Elementary, St Peter Elementary, Sts Philip and James Elementary; private/independent—Canton Country Day School Elementary. Summit County: Akron City—Kent Middle, Litchfield Middle, Ellet High, Firestone High, Miller-South Visual Performing Arts, National Inventors Hall of Fame® School; Cleveland Catholic Diocese—Our Lady of the Elms Elementary, St Hilary Elementary, Seton Catholic Elementary, St Vincent St Mary High; Hudson City—Hudson High. Trumbull County: Hubbard Exempted Village—Hubbard High; Lordstown Local—Lordstown High; Niles City—Washington Elementary; Trumbull County: Youngstown Catholic Diocese—St Patrick Elementary. Tuscarawas County: Tuscarawas Valley Local—Tuscarawas Valley Middle, Tuscarawas Valley High. Union County: Fairbanks Local—Fairbanks Middle. Warren County: Cincinnati Archdiocese—St Susanna Elementary; Mason City—Mason Middle, William Mason High; Wayne Local—Waynesville High. Washington County: Fort Frye Local—Lowell Elementary; Steubenville Catholic Diocese—St Mary Elementary. Williams County: Edon-Northwest Local—Edon High; Millcreek-West Unity Local—Hilltop High; Toledo Catholic Diocese—St Patrick Elementary. Wood County: Bowling Green City—Bowling Green High; Toledo Catholic Diocese—St Aloysius Elementary, St Rose Elementary; private/independent—Bowling Green Christian Academy. Wyandot County: USEVS Exempted Village—Upper Sandusky High.

Ohio State Contact: Office of Continuing Education, 614-292-8571, www.statescienceday.osu.edu/. External Partners: Ohio Academy of Science; American Electric Power, Ohio Environmental Education Fund, Boehringer Ingelheim Roxane, Inc.

Stone Lab Aquatic Science Field Trips for School Groups

Teachers can bring classes (grade 4 or older) to Stone Laboratory during the spring and fall for a special custom-designed workshop/field trip that can include a science cruise on a research vessel, fish dissections, identification of plankton using microscopes, bird walks, insect walks, invertebrate collections, seining, and history discussions. Accommodating 175 groups and over 5,500 individuals annually, Stone Lab's science workshop program offers a variety of activities, ranging from water sampling on a research vessel on the lake to identifying microscopic aquatic organisms and dissecting fish in a lab. These field trips meet many of the Ohio Academic Content Standards for Science. Groups have the option to schedule a 1-day workshop or stay overnight for a 2-day workshop from mid-April-October. Cost depends upon size of group, length of stay, and number of activities selected. A cost estimate calculator is available at stonelab.osu.edu/tripsandtours/estimator.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Sea Grant College Program/Stone Lab, Office of Research, 614-292-8949, stonelab.osu.edu/tripsandtours.



Activities during a Stone Lab field trip. Photo courtesy of Ohio Sea Grant College Program/Stone Lab.

Young Women's Summer Institute

Young Women's Summer Institute is a weeklong program in July sponsored by the Ohio Supercomputer Center for middle school girls. It is designed to promote computer, math, and science skills as well as provide hands-on experiences. YWSI helps girls develop an interest in these subjects by allowing them to work on practical, interesting scientific problems using the latest computer technology. K-12 science and math teachers may also participate.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Supercomputer Center, Office of Research, 614-292-6067, ywscontact@osc.edu, www.osc.edu/education/ywsi/. External Partners: Battelle, Procter & Gamble, AEP.

Government Days

Government Days are designed to improve students' citizenship, math, and reading knowledge through learning about local county government and local and state history. In Lorain County, middle and high school students shadowed county officials for Youth Government Day. Each student participated in approximately 12 hours of preparation by participating in public speaking activities, quiz bowl games, mock campaigns, and an election process. Harrison County's Government Day program saw 250 county elementary-age youth enhance citizenship skills thanks to a dual-site field trip to 12 county government agencies.

Participating Schools: Schools in Harrison and Lorain counties.

Ohio State Contact: OSU Extension, harrison.osu.edu, lorain.osu.edu.

Museum of Classical Archaeology

The Ohio State Museum of Classical Archaeology is operated by the Departments of Greek and Latin, History, and History of Art, in close cooperation with the Ohio State Excavations at Isthmia (Greece). Class visits to the museum on the Columbus campus expose students to classical archaeology and allow them to see and handle actual archaeological finds. The displays focus on problem-solving methods and how we can learn about the past from material evidence.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Department of History, College of Arts and Sciences, 614-247-4470, moca.osu.edu. Ohio State Partners: College of Humanities, Department of Greek and Latin; College of the Arts, Department of History of Art.

Planners' Day in Schools

The primary purpose of this project was to engage middle school students in the world around them through an understanding of city and regional planning. The project brought graduate students in The Ohio State University's City and Regional Planning (CRP) program into sixth-grade social studies classes to discuss what planning is, what planners do, and how someone becomes a planner. Additionally, the CRP students facilitated two map-oriented exercises with the middle school students. The mapping exercises helped middle school students identify what they liked and disliked about their community and envision what they would like to see. These exercises coincided with sixth-grade social studies curricula addressing regional change and consequences of change, helped build critical thinking, and set the foundation for a more engaged youth citizenry. In the academic years between 2007-2009, more than 30 graduate students participated in the 2-day programs for six social studies classes at Monroe Middle School and visits to Mifflin Alternative School. The 2010 outreach effort included visits to Indianola Informal K-8 in February and March. Schools that have an interest but are located distant from Columbus Campus can make use of our workbook either alone or in conjunction with professional planners or planning students in their area.

Participating Schools: Franklin County: Columbus City—Indianola Informal Alternative Elementary.

Ohio State Contact: Knowlton School of Architecture, City & Regional Planning, College of Engineering, 614-292-1012.

SOCIAL SCIENCES/SOCIAL STUDIES

CRIME Camp

The CRIME Summer Camp is an in-depth program for middle school students from around the country focusing on forensic archaeology and anthropology. Over the course of a week, students learn to recover forensic evidence and process a crime scene. Students participate in field and classroom instruction in excavation and forensic exploration, fingerprint analysis, bone analysis, crime-scene processing, and evidence collection and documentation. As in real life, students meet with crime-scene experts, including university police, entomologists, and forensic dog handlers. The project director has developed a model forensics curriculum for high school teachers across the country to educate a new generation of young students in the fields of forensic science, archaeology, and anthropology. The program is run through Columbus School for Girls summer programs but any students can participate.

Participating Schools: Franklin County: Columbus School for Girls. Up to 20 students can participate as part of the Great Days summer program.

Ohio State Contact: Department of Anthropology, College of Arts and Sciences, 614-361-0753. Ohio State Partners: OSU Police Department, Entomology Extension, Waterman Dairy Farms, Central Ohio Technical College.

Forensics in the Classroom

Forensics in the Classroom is a 1-week bridge program for middle and early high school students to learn basic math and science skills in an interactive environment through the lens of forensics. The program focus includes basic crime scene management, crime scene photography and mapping, forensic anthropology, blood spatter analysis, evidence collection, fingerprint analysis, ballistics/weapons/firearms evidence tying all of these elements together with a discussion of its application to the legal system.

Participating Schools: Available to any districts/schools/youth. 2009-10: Franklin County: Columbus City—Arts IMPACT Middle; Worthington City.

Ohio State Contact: Department of Anthropology, College of Arts and Sciences, 614-743-0378, www.pastfoundation.org/current-programs/forensics-in-the-classroom/. External Partners: PAST Foundation, I Know I Can.

Starlab Planetarium

The Starlab Planetarium is a 30-60 minute trip into a different world. The students can explore the solar system, travel to the moon, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. The Starlab provides a unique learning experience for the Ohio State Lima 10-county area. \$50 first half hour, \$25 each additional 30 minutes.

Participating Schools: Schools in Allen, Auglaize, Hancock, Hardin, Logan, Mercer, Paulding, Putnam, Shelby, and Van Wert counties.

Ohio State Contact: Outreach and Engagement, College of Education and Human Ecology, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Ford PAS.

Street Law Program

Street Law is a practical participatory educational program aimed at teaching law, democracy, and human rights to elementary and secondary students. Developed by the National Institute for Citizen Education in the Law, it operates nationwide. Through the Street Law program, Moritz College of Law students work with Columbus public school teachers in grades 4-12. Law students teach a 6-8 week course that they design with the public school teacher. The law students plan the lessons for students; these lessons have included mock trials and discussions concerning the three branches of the government, contracts, criminal law, rights of minors when stopped by police, and the landlord/tenant relationship. Some classes focus on topics that the students must master for the state proficiency exam.

Participating Schools: Franklin County: Columbus City

Ohio State Contact: Moritz College of Law, moritzlaw.osu.edu/students/orgs/index.php?ID=50.

USSR vs. USA: Soviet and American Posters in WWII

This colorful freestanding display compares World War II-era Soviet and American propaganda posters on a variety of themes, including Women at War, On the Home Front, and Motivation to Fight. The display will be especially interesting to history and social studies classes, particularly those dealing with American history. Teachers may request this display for 1 week at a time, and the Slavic Center will arrange for delivery and pick-up.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Center for Slavic and Eastern European Studies, Office of International Affairs, 614-292-8770, csees@osu.edu, slaviccenr.osu.edu/teachers_inschool.html.

SUMMER PROGRAMS

Camp Engineer

Camp Engineer is a 1-week day camp that seeks to provide middle school girls with a more in-depth exposure, understanding, and appreciation of engineering. During the week, students work on design projects as well as participate in engineering department tours and workshops that help introduce them to specific engineering disciplines. This program is open only to the middle school participants of the Columbus City Schools' Young Women's Empowerment Conference.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-7329, wie.osu.edu/content/other-area-outreach-events.

Columbus Academy Summer Experience

The Columbus Academy Summer Experience offers programming for children from Pre-K through 12th grade. In the Rising K through 4th grade section, as well as the Rising 4th through 9th grade section, there are endless themed opportunities for children in Academics, Arts and Athletics. In the Rising 9th through 12th grade section are courses for credit and enrichment. Byrd Polar's involvement with this camp included teaching geology and nature and hiking to 1st-4th and 5th-9th graders.

Participating Schools: Franklin County: Columbus Academy.

Ohio State Contact: Byrd Polar Research Center, Office of Research, 614-292-6646, bprc.osu.edu/education/.

Digital Animation: A Technology Mentoring Program for Young Women

Every June, faculty, staff, and graduate students in the Advanced Computing Center for the Arts and Design conduct a summer camp that teaches eighth- and ninth-grade girls how to create computer-generated animation. For 2 weeks, the select group of young women with artistic potential works with mentors from arts and technology fields at Ohio State using problem-solving skills and collaborative learning to create digital animation projects. The program is intended to showcase innovative technology and introduce participants to careers in the arts. In June 2009, 11 young women from Columbus area middle and high schools were mentored by three women graduate students, one undergraduate and the director of ACCAD. The topic was digital artists as proponents of social change through their art and animation. Projects focused on creating 3D animation with Maya on the topic of Ohio prairies, their history, value and preservation needs. Participants visited The Ohio State University's Marion Prairie Nature Center as a basis for understanding prairies.

Participating Schools: Columbus area districts.

Ohio State Contact: Advanced Computing Center for the Arts and Design, College of Arts and Sciences, 614-292-1053, womenandtech@accad.ohio-state.edu, accad.osu.edu/womenandtech/home.html.

Girls Reaching to Achieve in Sports and Physics (GRASP) Summer Camp

GRASP is a 5-day summer camp for middle school girls hosted by the Ohio State University Department of Physics and the Society of Women in Physics with help from physics faculty, staff, and graduate and undergraduate students. Each day consists of hands-on, interactive physics demonstrations and projects followed by a physical activity that shows how physics relates to everyday phenomena. Ohio State undergraduate and graduate students are present at all sessions to help supervise and share their understanding and love of physics with the GRASP participants. The third annual GRASP Summer Camp was held in June 2010. Physical activities included football, ice skating, climbing wall, and archery. These activities corresponded with lectures from physics faculty on the topics of projectile motion, physics of biathlons and archery, and microwaves. Participants in the 3rd annual GRASP Camp were taken on a field trip to the Center of Science and Industry (COSI) in Columbus, Ohio, where they learned about human nutrition and body composition at the Labs in Life.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Department of Physics, College of Arts and Sciences, 614-247-1635, www.physics.ohio-state.edu/undergrad/GRASP.

K-12 Chinese Flagship Program

Funded by the National Security Education Program, the K-12 Chinese Flagship Program is interested in supporting any school in Ohio that is offering or plans to offer Chinese language and provides more support to selected partner schools. The goal is to build the infrastructure for Ohio schools to establish successful language programs leading to solid communication skills in Mandarin Chinese. The program is developing partnerships in Ohio and beyond to achieve objectives that include the following: developing performance-based curriculum, providing teacher support and ongoing professional development, and creating a technology support system with effective Chinese language programs. With StarTalk support, Chinese Summer Day Camps are offered to students in multiple metro areas (in Cincinnati, Cleveland, Columbus, and Dayton in June 2010). The camp and teacher development are operated by the K-12 Chinese Flagship and Department of East Asian Languages and Literatures.

Participating Schools: Cuyahoga County: Beachwood City—Beachwood High; Shaker Heights City—Shaker Heights High; Polaris Career Center. Franklin County: Columbus Catholic Diocese; Gahanna-Jefferson City—Gahanna South Middle, Gahanna Lincoln High; Metro School. Greene County: Beavercreek City—Beavercreek High. Hamilton County: Sycamore Community City—Sycamore High. Montgomery County: Miami Valley High. Tuscarawas County: Dover City—Dover High.

Ohio State Contact: Foreign Language Center, College of Arts and Sciences, 614-292-0460 or 614-292-0577, k12chineseflagship.osu.edu/. Ohio State Partner: Department of East Asian Languages and Literatures.

Kids' College (Lima)

The Ohio State University at Lima's Kids' College is a summer day camp offered during break week for students entering the sixth, seventh, and eighth grades in the fall. The day camp is designed to provide a positive educational experience and foster a lifetime love of learning. The workshops are taught by instructors who were chosen for their creativity and expertise in their subject. The workshops, limited to 10–20 students each, emphasize creativity, investigation, and discovery through hands-on activities.

Participating Schools: Open to Allen and adjacent counties. Allen County—Lima North Middle, Lima South Middle, Lima West Middle.

Ohio State Contact: Office of Continuing Education, Ohio State Lima, 419-995-8857, www.lima.osu.edu/kidscollege/default.htm. External Partners: LAHEC, Rotary, American Dairy, Superior Credit, AVI, Lima Sporting Goods.

Kids' College (Marion)

Kids' College consists of eight 4-day (Monday-Thursday) half-day summer camps for elementary-age students that offer educational enrichment opportunities. Classes offered in 2010 were Science Rocks!, Alley-Oop, CSI...Marion, Hippie Art, Computer Camp, Passport to Fishing, and two sessions of LEGO Vehicle Engineering. Kids' College has been offered for 12 years. Fees range from \$55-\$65 per child per class. Class fees are reduced for three or more registrations from one family. Two scholarships are available: the Kids' College Scholarship and the ACE Scholarship. The Kids' College Scholarship is open to all children with financial need and fully funds one class per child. The ACE scholarship is offered to students in 4th and 5th grades in the Marion City School District who have been nominated by their teachers based on their academic potential and their lack of access to enrichment activities. This scholarship fully funds bus transportation from the student's home elementary school to the Ohio State Marion campus, one class in the morning, lunch, one class in the afternoon, and transportation back to the student's home school. Marion City School District covers the cost of bus transportation and lunch for the recipients of the ACE scholarship. There are funds available for a minimum of 40 children per year for both scholarships combined. Only children in the 4th and 5th grades in that district are eligible for this scholarship. However, children from 2nd to 6th grades from any school building or district can participate in Kids' College, either by winning a Kids' College Scholarship or by being privately funded. While the majority of Kids' College students come from Marion County, some come from the counties contiguous to Marion, and a few come from beyond that.

Participating Schools: Marion County: Marion City—Garfield Elementary, George Washington Elementary, Harrison Elementary, Hayes Elementary, McKinley Elementary, Taft Elementary.

Ohio State Contact: Community Relations, Ohio State Marion, 740-725-6341, www.osumarion.osu.edu/kids_college.

Learning in Fitness and Education through Sports (LiFE Sports)

Learning in Fitness and Education through Sports (LiFE Sports) is designed to foster social competence among youth through their involvement in sport, fitness, and educational activities. This youth development initiative is built upon a historical community outreach program operating at Ohio State (National Youth Sport Program). The program serves approximately 600 predominately urban and underserved youth from the greater Columbus area during a 4-week summer day camp. Campers participate in a variety of sport and education activities throughout each day, which are infused with curriculum targeting the development and enhancement of social competence (i.e., self-control, effort, teamwork, and social responsibility). Campers have the opportunity for daily interaction with Ohio State students, student-athletes, and teachers from the community; transportation to and from camp; and breakfast and lunch. Sports clinics are also provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites and the Ohio State University campus. The LiFE Sports team also partners with Undergraduate Admissions and First Year Experience, the P-12 Project and Economic Access Initiative to provide participants with college access and career exploration activities. The LiFE Sports program is supported in part by an Excellence in Engagement grant from the Office of University Outreach and Engagement.

Participating Schools: Schools in Franklin County.

Ohio State Contact: College of Social Work, 614-292-6934, www.osulifesports.org. Ohio State Partners: Department of Athletics, P-12 Project, Office of Academic Affairs; School of Physical Activities and Educational Services, College of Education and Human Ecology; Office of Undergraduate Admissions and First Year Experience, Economic Access Initiative, Office of Academic Affairs; Department of Recreational Sports, Office of Student Life. External Partner: Boys and Girls Club of Columbus.

Mathersize Summer Mathematics Camp

Mathersize is a weeklong day camp intended for middle-grades girls (entering grades 4-7). The purpose of the camp is to help all interested girls—those who are struggling in mathematics as well as those who already enjoy and are successful in mathematics—learn to reason through mathematics activities in a supportive community-like environment. The curriculum emphasizes mathematical processes (problem solving, communication, representation, connections, and proof) through integrated content and collaboration. Lessons connect mathematics to the fabric arts, technology, science, and writing. The girls develop positive dispositions toward mathematics, an appreciation of the presence of mathematics in their world, and skills to communicate and network around mathematics. Activities include playing games of logic and probability; integrating literature, science, and the arts into mathematics; and completing building projects.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Paul the Apostle Elementary; Dublin City—Glacier Ridge Elementary, Mary Emma Bailey Elementary; Grandview Heights City—Grandview Heights Middle, Thomas A. Edison Intermediate. Hamilton County: Summit Country Day School. Licking County: Heath City—Stevenson Elementary; Newark City—Hillview Elementary, Legend Elementary; North Fork Local—Newton Elementary. Perry County: Northern Local—Sheridan Middle. Out of state: Platte-Geddes Elementary (MT).

Ohio State Contact: Mathematics Education, School of Teaching and Learning, College of Education and Human Ecology, Ohio State Newark, 740-366-9203, newark.osu.edu/derchick/mathersize.

Summer Food Service Program

The Summer Food Service Program, which provides free, nutritious meals to school-aged children in low-income areas during summer school vacation, is a unique partnership between OSU Extension and local sponsors such as schools, units of local government, public or nonprofit private residential summer camps, other nonprofit private organizations, and colleges or universities participating in the National Youth Sports Program. Any child may receive a free meal at an approved open site without the need to apply. This partnership enables these youth to participate in nutrition education and physical activities designed to teach them the importance of a healthy lifestyle through daily food choices.

Clermont County: The Boys & Girls Club of Clermont County is the sponsoring agency for the New Richmond Unit. A second unit is sponsored by the Felicity Initiative for Neighborhood Excellence located in the Felicity-Franklin Local Schools. The sites serve youth aged 6 to 18. Educational lessons lasting approximately one hour are offered one day a week at each facility. Lessons include a nutritional message of the week, physical activities along with food tastings. Food safety and hand washing are emphasized. Local program sites are determined by the number of students that qualify for USDA free and reduced priced lunches.

Hardin County Extension offered 6 weeks of programming during the Summer Food Service meal sites at four Kenton locations. A total of 238 youth chose to participate in hands-on activities focused on MyPyramid information from the Professor Popcorn curriculum.

Lorain County participates in the Summer Food Service Program in cooperation with Elyria City Schools, Salvation Army of Elyria and Lorain, and the Neighborhood House Association. Shelby County Extension offers 5 weeks of programming during the Summer Food Service meal sites at 2 sites, soon to be three. Youth participate in hands-on activities focused on MyPyramid information and next participate in a 30-minute activity program. Students from the various city schools come to the food sites where the food is served.

Lucas County: Through the Family Nutrition Program, Ohio State University Extension offers educational programming at sites to increase participation and help children continue learning in the summer months while focusing on nutrition and the importance of physical activity.

Shelby County Extension offers 5 weeks of programming during the Summer Food Service meal sites at 2 sites, soon to be three. Youth participate in hands-on activities focused on MyPyramid information and next participate in a 30 minute activity program. Students from the various city schools come to the food sites where the food is served.

Participating Schools: Clermont County: Felicity-Franklin Local, New Richmond Exempted Village. Lorain County: Elyria City. Schools in Hardin and Shelby Counties.

Ohio State Contact: OSU Extension, extension.osu.edu. External Partners: Salvation Army of Elyria and Lorain, Neighborhood House Association.

Summer Reading Clinic

Ohio State Lima offers a Summer Reading Clinic to students in grade K-9. The clinics include approximately 20 hours of individual or paired tutoring time for primary and middle childhood students. Each student's reading ability is assessed, and lessons are designed to meet each student's needs. The program objectives are to (1) help children develop a love of reading and books; (2) increase the amount of time the children spend reading and sharing books at home with family members and friends; and (3) help the children improve their reading skills. The instructors in the reading clinic are Master of Education students in the Ohio State Lima Early Childhood and Middle Childhood Teacher Education Program. Faculty in the Ohio State Lima Education Program supervise all assessment and instruction. Ohio State Lima Summer Reading Program works with primary students enrolled in the Lima YWCA Summer Day Camp Program and with middle childhood students from the Lima-Allen County area.

Participating Schools: Allen County: Lima City.

Ohio State Contact: School of Teaching and Learning, College of Education and Human Ecology, Ohio State Lima, 419-995-8641. External Partner: YWCA-Lima.

Wexner Center for the Arts Summer Youth Workshops

Weeklong (Monday-Friday), half-day workshops are offered for ages 6-14. Teen Arts Fusion workshops are for ages 15-18. Each course is developed especially for its age group and taught by practicing artist/educators (including M.F.A./Ph.D. grads and candidates in art, art education, art history, dance, theater, and architecture). Many classes emphasize cutting-edge technology or innovative interdisciplinary approaches.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Wexner Center for the Arts, 614-292-6493, edweb@wexarts.org, www.wexarts.org/learn/for_families/index.php?eventid=3805.

WiE GROW

Hosted by the Women in Engineering Program at The Ohio State University and made possible through the generous support of The Scotts Miracle-Gro Company, WiE GROW is a 5-day, nonresidential summer program designed to introduce 35 8th grade girls to the exciting world of engineering and to ignite their interest in an engineering-related career. Participants were introduced to engineering through a variety of hands-on activities organized by various departments within the College of Engineering. They also had the opportunity to visit Nestles and Scotts Miracle-Gro to learn what an engineer does on a day-to-day basis. Nonrefundable \$25 application fee, and a \$295 participation fee if accepted to the program. Scholarships are available.

Participating Schools: Available to any districts/schools/youth.

Ohio State Contact: Women in Engineering, College of Engineering, 614-688-3118, wie@osu.edu, wie.osu.edu/content/wie-grow. External Partner: Scotts Miracle-Gro Company.

Young Women's Summer Institute

Young Women's Summer Institute is a weeklong program in July sponsored by the Ohio Supercomputer Center for middle school girls. It is designed to promote computer, math, and science skills as well as provide hands-on experiences. YWSI helps girls develop an interest in these subjects by allowing them to work on practical, interesting scientific problems using the latest computer technology. K-12 science and math teachers may also participate.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Supercomputer Center, Office of Research, 614-292-6067, ywsicontact@osc.edu, www.osc.edu/education/ywsi/. External Partners: Battelle, Procter & Gamble, AEP.

TECHNOLOGY

4-H Space Adventure Camp

Now in its 18th season, Space Adventure Camp is for boys and girls ages 11-13 and/or students who were fifth, sixth, or seventh graders during the past school year. Participants explore the world of flight and science as they build and test flying machines, conduct computer flight simulations, learn about the principles of aerodynamics, and gain an overview of the development of the space flight program. The camp is a cooperative venture between Ohio State University Extension and Marietta College. The campers living on the Marietta College campus, learning from college professors; Campers are supervised by 4-H camp counselors.

Participating Schools: Available to all Ohio youth; membership in Ohio 4-H is not a requirement.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-6942, jackson.osu.edu/events/4h-space-adventure-camp.

Parkmoor students tour the OSU Airport.
Photo: Cindy Overly.



Airport Tours

Interactive tours of The Ohio State University Airport offer a behind-the-scenes experience that introduces youth to airport operations, flight training, and aircraft maintenance. Students learn about basic aerodynamics, parts of the plane and the airport's importance in the community. In 2009, 1,200 students in grades K-12 toured the airport.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, www.osuairport.org/Education/Tours/.

Center for Emergent Materials Education and Outreach

As part of its research outreach effort, the Center for Emergent Materials partners with existing K-12 outreach initiatives to increase their capacity and to incorporate materials science and engineering content into their activities. During 2009-10, the CEM collaborated with the Ohio STEM Ability Alliance, Breakfast of Science Champions, Columbus School for Girls, Weinland Park Elementary, Arlington Park Elementary, Blueprint: College, Baseball Day, Society of Women in Physics, and COSI to serve 5,838 K-12 students, including 2,649 girls, 3018 students from minority groups underrepresented in STEM careers, and 539 students with disabilities.

Participating Schools: Franklin County: Columbus City—Arlington Park Elementary, Weinland Park Elementary; private—Columbus School for Girls.

Ohio State Contact: Materials Science and Engineering, College of Engineering, 614-292-9548, cem.osu.edu/education-and-outreach/. Ohio State Partners: Natural and Mathematical Sciences, Department of Physics, Department of Chemistry Department of Materials Science, Department of Electrical and Computer Engineering.

Digital Animation: A Technology Mentoring Program for Young Women

Every June, faculty, staff, and graduate students in the Advanced Computing Center for the Arts and Design conduct a summer camp that teaches eighth- and ninth-grade girls how to create computer-generated animation. For 2 weeks, the select group of young women with artistic potential works with mentors from arts and technology fields at Ohio State using problem-solving skills and collaborative learning to create digital animation projects. The program is intended to showcase innovative technology and introduce participants to careers in the arts. In June 2009, 11 young women from Columbus area middle and high schools were mentored by three women graduate students, one undergraduate and the director of ACCAD. The topic was digital artists as proponents of social change through their art and animation. Projects focused on creating 3D animation with Maya on the topic of Ohio prairies, their history, value and preservation needs. Participants visited The Ohio State University's Marion Prairie Nature Center as a basis for understanding prairies.

Participating Schools: Columbus area schools.

Ohio State Contact: Advanced Computing Center for the Arts and Design, College of Arts and Sciences, 614-292-1053, womenandtech@accad.ohio-state.edu, accad.osu.edu/womenandtech/home.html.

Lego Robotics

In this hands-on learning activity for grades 5-12, youth learn how to program Lego robots to accomplish various tasks.

Participating Schools: Available to any districts/schools/youth in Allen County.

Ohio State Contact: Allen County, OSU Extension, 419-879-9108, allen.osu.edu.

Young Women's Summer Institute

Young Women's Summer Institute is a weeklong program in July sponsored by the Ohio Supercomputer Center for middle school girls. It is designed to promote computer, math, and science skills as well as provide hands-on experiences. YWSI helps girls develop an interest in these subjects by allowing them to work on practical, interesting scientific problems using the latest computer technology. K-12 science and math teachers may also participate.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: Ohio Supercomputer Center, Office of Research, 614-292-6067, ywscontact@osc.edu, www.osc.edu/education/ywsi/. External Partners: Battelle, Procter & Gamble, AEP.

In the cockpit at the OSU Airport.
 Photo: Cindy Overly.



Youth Aviation Adventure

This half-day program located at The Ohio State University Airport introduces youths to the world of aviation in a hands-on adventure. Through the use of real aircraft to unravel the wonder and mystery of flight, youths learn about airport operations, instruments in a cockpit, and aerodynamics; preflight an actual airplane; and have the opportunity to take a free flight in an airplane through the Young Eagles program. Upon completion of the program, Boy Scouts satisfy most of the requirements for their Aviation merit badge and Girl Scouts fulfill all but the service requirement for the Cadettes/Seniors World of Flight Interest Project. All participants receive a Youth Aviation Adventure patch.

Participating Schools: Available to any districts/schools/youth.
Ohio State Contact: Ohio State University Airport, College of Engineering, 614-247-4366, youthaviationadventure.org/.

4-H Community Clubs

Ohio 4-H involves more than 80,000 youth in 4-H Community Clubs located in every Ohio county. Youth 5-8 years of age participate in Cloverbud Club activities in a social and supportive setting with an adult volunteer. Youth 9-18 years of age participate in self-directed project work (more than 200 projects with opportunities to show what they have learned through exhibits and fairs). Members of 4-H clubs participate in social and recreational activities as well as educational activities at club meetings. Club members elect officers, plan and conduct all club events, and participate in community service projects.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-4444, www.ohio4h.org/youth/index.html.

4-H Operation: Military Kids

Ohio takes part in the national Operation: Military Kids (OMK) initiative. OMK helps children of military service members cope with the stresses and changes a parent or family member's deployment brings into their lives. Through a strong partnership with the Ohio National Guard, Ohio's OMK program has reached these youth through summer camps, family recreational events, and other educational programs such as Hero Packs (care packages made to thank and salute children with deployed parents in the National Guard or Reserve), Ready Set Go (interactive training on topics such as grief, loss, and trauma), and Speak Out for Military Kids (youth-driven community outreach). These activities are designed to help youth develop effective coping strategies, find positive meaning in a negative situation, and build life skills that will help them now and in the future.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-292-3758, omk@cfaes.osu.edu, operationmilitarykids.ohio4h.org.

4-H Pet Pals

4-H PetPALS (People and Animals Linking Successfully) is an intergenerational program of Ohio State Extension 4-H Youth Development that links youth and pets with senior adults. Adult volunteers teach skills to youth to help them interact with residents in health care facilities and senior centers. Young people learn about the physical changes associated with aging. Youth learn to select, socialize, and train pets to participate in animal-assisted activities. This 10-step experientially based leader-directed curriculum can easily be adapted for classroom and after-school settings. Teachers can select lessons and activities to educate students about the human-animal bond, pets, and senior adults. Youth experience, reflect, generalize, and apply the lessons and activities to expand their capacities to develop leadership and citizenship skills in an intergenerational environment. Approximately 40 adult volunteers and 250 youth throughout Ohio are actively engaged in this specialized 4-H program. In Pike County, the 4-H PetPALS Juvenile Diversion Program is an innovative project developed to address critical needs of at-risk youth. The objective is to provide a positive learning environment for youth to overcome undesirable behaviors and become contributing members of society. The program has served over 100 youth in after-school settings, community centers, or in extended school programming facilities for 8-week classes.

YOUTH DEVELOPMENT

4-H Camping Programs

4-H camps provide a learning opportunity for youth to gain life skills, become independent, develop teamwork, learn about nature, and experience camping in a rural setting. Older teens are trained as camp counselors to help plan and conduct activities and teach and evaluate campers.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/office/camps.html.

4-H Colors of Leadership: Developing Future Leaders and Building Positive School Environments

The Putnam County Extension office partnered with the Putnam County Education Service Center to facilitate a leadership program called 4-H Colors of Leadership: Developing Future Leaders and Building Positive School Environments that guided junior high students through the development of a plan of action that they could bring back to their schools for implementation. The teams of youth were challenged to develop a plan that would make a positive impact in their school environments. The program was delivered in seven of the nine school districts in Putnam County. A total of 134 junior high students attended the 5-hour training to explore leadership styles, practice teamwork skills, and share points of school pride. Each group of students was coached through a series of planning stages that led to detailing a plan of action. Some of the ideas generated from the students included the development of a junior high school student council, a promotional plan to enhance school pride, a self-esteem field day, and many others.

Participating Schools: Schools in Putnam County.

Ohio State Contact: Putnam County, OSU Extension, 419-523-6294, putn@postoffice.ag.ohio-state.edu.

Participating Schools: Available to all districts/schools/youth in Ohio.

Ohio State Contact: 4-H Youth Development, Companion and Small Animal Programs, OSU Extension, 614-292-4444, 4hpetpals.osu.edu/.

4-H Program at Wright Patterson Air Force Base

Ohio 4-H Youth Development and Wright-Patterson Air Force Base partnered to involve over 200 youth in 4-H programming, including after-school clubs and summer camp programs. The goal of the program is to provide positive youth development programming for military youth. Youth are engaged in new learning experiences, developing leadership potential, and are integrated into local county 4-H programming. 256 children were enrolled as 4-H members at Wright-Patt Air Force Base. Youth participated in 4-H Clubs at the Prairies Child Care Center, the Teen Center, and the summer 4-H Program at the Prairies. Prairies staff members conducted weekly sessions during the school year and summer on woodworking, photography, foods, drama, rocketry and aerospace, citizenship, athletics, and dance. 90% of the school year 4-H participants received recognition for attendance and participation in service activities.

Participating Schools: Montgomery County: Cincinnati Archdiocese—St Helen Elementary; Mad River Local—Stebbins High.
Ohio State Contact: 4-H Youth Development, OSU Extension, www.ohio4h.org/military/.

Adventure Central

Adventure Central is an in-depth partnership between Ohio State Extension 4-H Youth Development and Five Rivers MetroParks that is designed to engage youth in development using a foundation of science and nature subject matter and providing homework assistance, healthful meals, and a variety of learning activities. Adventure Central program models include after-school activities, a youth leadership board, workforce preparation training and work-based learning experiences, clubs, overnight camp, and summer day camp. Over 300 youth participate in programming at Adventure Central each year, translating to more than 60,000 contact hours. Volunteers, college students, and staff members learn through direct experience with applied research projects, evaluation efforts, pilot programming, and ongoing opportunities for teens. Adventure Central Wilderness Adventures Camp and 4-H After-School Program provide opportunities for youth to be mentored by positive adult role models. Adventure Central Family Programs help strengthen relationships between families and schools. Adventure Central Workforce Preparation helps youth learn about careers and life skills through Junior Achievement, Real Money, Real World, and JET (Job Experience and Training).

Participating Schools: Schools in Montgomery County.
Ohio State Contact: 4-H Youth Development, OSU Extension, 937-278-2601, www.metro parks.org/ac.

Girls Circle

The Girls Circle Project is a service-based, year-long immersion project that trains college women to become Girls Circle facilitators and run Girls Circles in Columbus-area schools or agencies with middle or high school-aged girls. This project gives college women the opportunity to grow, learn, and challenge themselves through training, facilitation, and experiences working with adolescent and teenage girls. The Girls Circle model, a structured support group for girls from 9-18 years, integrates relational theory, resiliency practices, and skills training in a specific format designed to increase positive connection, personal and collective strengths, and competence in girls. It aims to counteract social and interpersonal forces that impede girls' growth and development by promoting an emotionally safe setting and structure within which girls can develop caring relationships and use authentic voices. The circles have a leader as well as a well-tested, weekly curriculum and evaluation methodology. The focus is on discussion, decision-making skills and critical thinking. In the 2009-10 academic year 35 women ran 15 circles in Columbus-area schools and organization, serving approximately 160 girls.

Participating Schools: Franklin County: Columbus City—Arlington Park Elementary, Indianola Informal K-8, Parkmoor Elementary; Grandview Heights City—Grandview Heights High; New Albany-Plain Local—New Albany Middle School; Reynoldsburg City—Waggoner Road Middle; independent/charter—W.C. Cupe Community, Wellington School, Pschtec High. Schools need to be in Franklin County or within a 30-minute driving distance of the OSU-Columbus campus.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794, www.girlscircle.com. Ohio State Partner: Economic Access Initiative, Office of Academic Affairs. External Partners: YWCA, Columbus Housing Partnership.

Health Rocks

Health Rocks, a series of healthy decision-making educational programs, was provided in both the county and city school systems in Gallia County. Trained teen presenters taught elementary age students a variety of lessons on living healthy and making good decisions. In Meigs County, Teen Leaders contributed 150 service hours as Health Rocks Teen Mentors in the after-school programs. The teens taught and mentored school-age youth about making positive decisions about drugs, alcohol, and tobacco in a 6-week program.

Participating Schools: Gallia County: Gallia County Local, Gallipolis City. Meigs County: Eastern Local, Meigs Local, Southern Local.

Ohio State Contact: Meigs County, OSU Extension, 740-992-6696, gallia.osu.edu, meigs.osu.edu.

Learning in Fitness and Education through Sports (LiFE Sports)

Learning in Fitness and Education through Sports (LiFE Sports) is designed to foster social competence among youth through their involvement in sport, fitness, and educational activities. This youth development initiative is built upon a historical community outreach program operating at Ohio State (National Youth Sport Program). The program serves approximately 600 predominately urban and underserved youth from the greater Columbus area during a 4-week summer day camp. Campers participate in a variety of sport and education activities throughout each day, which are infused with curriculum targeting the development and enhancement of social competence (i.e., self-control, effort, teamwork, and social responsibility). Campers have the opportunity for daily interaction with Ohio State students, student-athletes, and teachers from the community; transportation to and from camp; and breakfast and lunch. Sports clinics are also provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites and the Ohio State University campus. The LiFE Sports team also partners with Undergraduate Admissions and First Year Experience, the P-12 Project and Economic Access Initiative to provide participants with college access and career exploration activities. The LiFE Sports program is supported in part by an Excellence in Engagement grant from the Office of University Outreach and Engagement.

Participating Schools: Schools in Franklin County.
Ohio State Contact: College of Social Work, 614-292-6934, www.osulifesports.org. Ohio State Partners: Department of Athletics, P-12 Project, Office of Academic Affairs; School of Physical Activities and Educational Services, College of Education and Human Ecology; Office of Undergraduate Admissions and First Year Experience, Economic Access Initiative, Office of Academic Affairs; Department of Recreational Sports, Office of Student Life. External Partner: Boys and Girls Club of Columbus.

Middle School Mentoring Program

The Middle School Mentoring Program is one of the signature outreach programs of The Todd Anthony Bell National Resource Center on the African American Male. The program is unique from other mentoring programs because it uses a group mentoring model. Undergraduate members of the BRC serve as mentors to eighth-grade African American males at Southmoor Middle School. Currently, mentors meet with the students every Friday in school. The activities range from workshops and focus groups to social and cultural field trips. This program encourages academic excellence, social and behavioral development, and a positive self esteem through consistent interaction with mentors.

Participating Schools: Franklin County: Columbus City—Southmoor Middle.
Ohio State Contact: Todd Anthony Bell National Resource Center on the African American Male, Office of Minority Affairs, 614-247-4765, oma.osu.edu/current-students/bell-resource-center/programs/middle-school-mentoring-program.php.

New York Life Youth in Governance 4-H Clubs

This program provides youth with opportunities to improve their communication and leadership skills, learn the ideals of democracy, and enhance their citizenship through service-learning projects. Youth Club members also have an opportunity to attend Citizenship Washington Focus, a weeklong learning experience in Washington, DC.

Participating Schools: Cuyahoga County: Cleveland Metropolitan—East Technical High, John Adams High; Parma City; Shaker Heights City—Hanna Perkins Elementary.
Ohio State Contact: Cuyahoga County, OSU Extension, cuya@ag.osu.edu.

Ohio 4-H Program

The Ohio 4-H program is coordinated by county, district, and state 4-H youth development professionals, who are staff members of Ohio State University Extension. More than 100 4-H youth development agents work in Ohio's counties. In 2009, 336,293 youth were involved in 11,802 different clubs and groups: 25% participated in organized clubs, 24% participated in school enrichment units, and 36% participated in special interest units; 46,046 youth participated in 4-H camps. Programs include Community Clubs, Organized In-School Clubs, After-School Clubs, Military Kids Clubs, overnight and day camps, school enrichment units, individual student mentoring, and school-age child care educational programs.

Participating Schools: Available to all districts/schools/youth in Ohio.
Ohio State Contact: OSU Extension, www.ohio4h.org.

Positive Lifestyles Career Program

This student-based motivational speakers bureau has been serving Allen County students for over 13 years, reaching thousands of students in grades 6-12. The program is composed of African American professionals and community members interested in making a difference in the lives of youth. This program encourages students to make positive choices in the areas of career/vocational choices, personal/interpersonal relationships, academic improvement, goal setting/future planning, and life skill development.

Participating Schools: Allen County: Lima City.
Ohio State Contact: Office of Institutional Diversity, Ohio State Lima, 419-995-8806.



ROX! Ruling Our eXperiences

ROX is an evidence-based empowerment program for girls that focuses on self-esteem, self-concept, body image, healthy assertiveness, healthy relationships, leadership, career development, and prevention of sexual violence. The program is designed as an intervention for young girls dealing with body image, gender roles, sexual harassment, career development, leadership development, femininity, and sexual violence. The goals are to improve the physical self-concept of participants, increase healthy assertiveness in participants, dispel myths about sexual assault and sexual violence, increase the self-esteem of participants, address issues of body image and societal and media influences, teach girls how to defend themselves, and encourage girls to pursue nontraditional educational, personal, and career options. Findings indicate that girls who participate in ROX have statistically significant improvements in self-concept and self-esteem as well as improved knowledge and skills to handle potentially threatening situations. Now in its fourth year, ROX has served more than 800 girls in Columbus and Cleveland.

Participating Schools: Cuyahoga County: Cleveland Catholic Diocese—Our Lady of Angels Elementary, Our Lady of Good Counsel Elementary, St Francis Elementary, St Jerome Elementary, St Martin of Tours Elementary, St Stanislaus Elementary, St Thomas Aquinas Elementary, Sts Cyril and Methodist Elementary, Holy Name High, Villa Angela St. Joseph High. Franklin County: Columbus City—Cranbrook Elementary, East Columbus Elementary, Weinland Park Elementary, Linden-McKinley High, Mifflin High; Upper Arlington City—Greensview Elementary; Westerville City—Westerville South High; Whitehall City—Rosemore Middle; independent—Columbus Arts & Technology Academy, Columbus Preparatory Academy, Metro School.

Ohio State Contact: Interprofessional Commission of Ohio, 614-292-5621, www.rulingourexperiences.com/Welcome.html.

Supplemental Education for Schools

Adolescents frequently engage in risk-taking behaviors such as drug and alcohol use, sexual activities resulting in sexually transmitted diseases and unwanted pregnancies, irresponsible vehicle operation, and violence. To address these issues, Supplemental Education for Schools was offered in local schools and at the local alternative school for adjudicated youth. Participants reported learning new social and life skills; many planned to use what they learned. The program was presented in conjunction with the Jefferson County Juvenile Court System.

Participating Schools: Harrison County: Belmont/Harrison Career Center, Harrison Hills City. Jefferson County: Buckeye Local, Edison Local, Indian Creek Local, Steubenville City, Toronto City.
Ohio State Contact: Harrison County, OSU Extension, 740-264-2212, harrison.osu.edu, jefferson.osu.edu.

Youth Educational Shoplifting (YES)

The OSU Extension Hocking County Family and Consumer Sciences Program cooperated with the Hocking County Juvenile Court to offer Youth Educational Shoplifting (YES) classes. Developed by the National Association of Shoplifting Prevention, the educational program is designed to help youth understand why they shoplifted and how to avoid doing it again in the future. To fulfill the program requirements youth must complete 5–6 hours of homework and participate in the 6-hour class.

Participating Schools: Schools in Hocking County.
Ohio State Contact: Hocking County, OSU Extension, hocking.osu.edu.