

Grades 6-8

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/.

4-H After-School at Indianola Middle School

OSU Extension received a grant from the Ohio Department of Education to oversee the 4-H After-School program at Indianola Math, Science, and Technology Middle School. An average of 40 students were active in the program. Students enrolled in the after-school program had an opportunity to interact with college students from Ohio State and participate in unique and innovative programming such as learning how to dismantle and reassemble computers. They also had a chance to go on fun-filled, educational field trips and participate in a variety of activities, such as skating, college tours, drama/theatre, tutoring/mentoring, food and nutrition, science and math projects, and other experiences. Students were transported home each day via the OSU Campus Area Bus Service (CABS). Parents and teachers surveyed indicated that over half of the students enrolled in the program demonstrated an improvement in their behavior, attitude, and academic performance.

Participating Schools: Franklin County: Columbus City—Indianola Math, Science, and Technology Middle.

Ohio State Contact: OSU Extension, Franklin County, 614-866-6900. External Partners: Godman Guild Association, CME Federal Credit Union, Ohio Credit Union League, Mayor's Office of Education.

Tiger Pride After-School Program

A community club was started as part of the New Boston Schools After-School Mall. The club met once a week during the after-school program. There are no active 4-H community clubs in this community, so the after-school club was an opportunity to provide experiential learning for youth who had no other access to the 4-H program.

Participating Schools: Scioto County: New Boston Local—Oak Intermediate Elementary.

Ohio State Contact: OSU Extension, Scioto County, 740-354-7879.

To Community and Beyond

To Community and Beyond is a before- and after-school program in the fourth year of a 5-year 21st Century grant. Participants are students in grades 3-6 who are at risk in reading and math skills as identified by teachers and parents. Latchkey students who need supervision before and after school also attend. A maximum of 60 students may participate. The 4-H Acres of Adventures materials on agricultural topics are used for hands-on activities related to reading and math.

Participating Schools: Coshocton County: River View Local—Union Elementary.

Ohio State Contact: OSU Extension, Coshocton County, coshocton.osu.edu.



6-8
Grades

AFTER-SCHOOL PROGRAMS

*In the soil pit
at Gwynne
Conservation Area
(photo courtesy
of the School of
Environment and
Natural Resources)*



A GRICULTURE, ENVIRONMENT, AND NATURAL RESOURCES



6-8
Grades

A GRICULTURE, ENVIRONMENT, & NATURAL RESOURCES

4-H Eco Adventures

431 youth pre-K-7 participated in a 1-hour interactive environmental science program conducted at each of the 27 branches of the Cuyahoga County Public Library system in collaboration with the library's Eco Quest summer reading program. Youth learned about and participated in demonstrations on water pollution, water filtration, solar energy, and wind energy. Ten participants chose to complete independent poster projects on an environmental issue of their choice, which were displayed at the Cuyahoga County Fair. This program was free and open to the public and available in 25 different cities throughout Cuyahoga County.

Participating Schools: Schools in Cuyahoga County.

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

Conservation Field Days

646 seventh-grade students from Adams and Scioto counties learned about how organisms become resistant to chemical control measures by attending the OSU Agriculture and Natural Resources section of three conservation field days. Participants increased their knowledge concerning the importance of following directions when trying to control harmful pest organisms. Hands-on examples were used to teach the principle that improper use and overuse of chemical controls of pests lead to resistant strains that become more difficult to control. ,

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

Ohio State Contact: OSU Extension, Scioto County, scioto.osu.edu.

Environmental Education

300 youth from Bryan, West Unity, and Pioneer participated in environmental education through hands-on learning activities conducted by the 4-H Youth Development educator. Youth learned about tree nomenclature and growth and about wildlife.

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

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

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. 125 youth and 28 adults representing 18 growing teams participated in the program. Participants gained confidence in producing vegetables from their efforts. Each child participant consumed an estimated average of 2.5 pounds of fresh fruit and vegetables during the growing season, increasing the nutritional benefit of their food source and correspondingly reducing their family food budget.

Participating Schools: Schools in Mahoning County.

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

Grades 6-8



6-8
Grades

AGRICULTURE, ENVIRONMENT, & NATURAL RESOURCES

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**—A new Junior Master Gardener group began this year. 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. (Juvenile Detention Center). **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**—15 Junior Master Gardeners at Carlin Elementary received their certification.

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.

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, The Ohio Agricultural Research and Development Center (OARDC) 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. The office conducted off-site Bug Zoo events for more than 500 students in 2008, including a number of library summer reading programs (their theme was Catch the Reading Bug). The office also provided customized tours for 15 youth groups, organizations, and schools, totaling 601 students from across Ohio and Pennsylvania. 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/.

Scarlet, Gray, and Green Fair

Teams of high school students competed in a first-of-its-kind model fuel-cell car race at the Ohio Agricultural Research and Development Center on Earth Day during Ohio State University's second annual Scarlet, Gray, and Green Fair. Each team started with a Thames & Kosmos Fuel Cell Car and Experiment Kit, which uses a clean, green hydrogen fuel cell for power. They built and modified the kits in advance, then competed in heats at the fair. The day also included environmental poster, song, poem, and video contests for grades 1-12, an ecological yardscape award (grades 7-12), and an environmental stewardship essay contest for juniors and seniors. The event was co-sponsored by the Wayne County Sustainable Energy Network.

Participating Schools: Ashland County: Ashland City—Ashland High; Ashland County—West Holmes Career Center. Medina County: Black River Local—Black River High. Summit County: Barberton City—Barberton High. Wayne County: North Central Local—Norwayne High; Northwestern Local—Northwestern High; Orrville City—Orrville High; Rittman Exempted Village—Rittman High; Southeast Local—Waynedale High; Wayne County Career Center.

Ohio State Contact: Agricultural Technical Institute, College of Food, Agricultural, and Environmental Sciences, www.wcsen.org/WCSGGF/index.html.

Science of Agriculture Workshops

In its seventh year, OARDC's Science of Agriculture workshop on the Wooster campus shattered all previous attendance records by bringing in 1,076 students from kindergarten to seniors in high school, more than a 200% increase over 2007 attendance. They came from 71 schools in 17 counties to learn about the science involved in agriculture. Another 400 students were on the waiting list. In 2 days, 17 sessions were offered for students in grades K-5 and 16 sessions for students in grades 6-12, each session offered up to seven times each day. From the explosive Whiz-Bang Science Show to participating in real-world experiments with OARDC researchers and extracting DNA from onions, students not only learned hands-on science, but they had fun, too. Participating departments included plant pathology; horticulture and crop science; food, agricultural and biological engineering; food animal health, computing and statistical services; research operations; Secrest Arboretum; and the director's office as well as Wayne County Recycling, Wayne Soil and Water Conservation District, and Town & Country Co-op.

Participating Schools: Available to all districts/schools/youth in Ohio on a first-come, first-served basis. 2008-09: Ashland County: Ashland City—Taft Elementary; Cleveland Catholic Diocese—St. Edward Elementary. Lorain County: Lorain County JVS. Lucas County: Ohio Virtual Academy High. Medina County: Cloverleaf Local—Cloverleaf High. Stark County: RG Drage Career Technical Center. Wayne County: Chippewa Local—Hazel Harvey Elementary; Green Local—Marshallville Elementary, Smithville Elementary; North Central Local—Norwayne High; Southeast Local—Fredericksburg Elementary, Waynedale High; Triway Local—Wooster Twp Elementary; Wayne County Schools Career Center; Wooster City—Lincoln Way Elementary; Parkview Elementary. 28 home school groups.

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 of Real Maple Syrup Production

The science of producing 100% pure maple syrup was introduced to 414 youth and 913 adults at the Williams County Maple Syrup Days. Participants learned about evaporation boiling point as it varies with elevation and density of solution, measurement scales such as Baum and Brix, and photosynthesis while witnessing first hand all aspects of maple syrup production. This program was conducted by the Extension Agricultural/Natural Resources educator and the 4-H Youth Development educator, in conjunction with the Williams County Soil and Water Conservation District and the Northwest Ohio Maple Syrup Producers.

Participating Schools: Schools in Williams County.

Ohio State Contact: OSU Extension, Williams County, will@ag.osu.edu, williams.osu.edu.

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 concepts that are applicable to horticulture, gardening, and environmental ideals. As part of this program, youth participants are exposed to the following subject areas: building a healthy base—MyPyramid for Kids and composition of soil; germination; identification of plant parts; proper seeding of a plant (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 having a garden site for use 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. During summer 2009, To the Garden We Grow served 488 youth at 12 community/out-of-school-time sites throughout Cuyahoga County. External grant funding from Family Children First Council, administered through Starting Point, Inc. as part of the MYCOM initiative, supplemented costs for this program in 2009. In 2010, To the Garden We Grow will be partially funded through the General Mills Champion for Healthy Kids program.

Participating Schools: Schools in Cuyahoga County.

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



6-8
Grades

AGRICULTURE, ENVIRONMENT, & NATURAL RESOURCES

Grades 6-8

ARTS

Central Ohio Flute Association Annual Competition

Students in grades 6 through young adults up to age 27 were invited to enter the 25th annual Central Ohio Flute Association Competition to win cash prizes and the opportunity to perform in a master class with a guest artist at the 2009 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 the Arts, 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 2009 festival featured flutist Jill Felber and students in grades 6 through age 27 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 the Arts, 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 the Arts, 614-292-5821, theatre.osu.edu.

Department of Theatre Central Ohio Schools Tour

The Department of Theatre Schools Tour Program is which 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 play was *Just Like Us* by Craig Sodara. The play served as a springboard to discover and discuss beliefs about stereotyping and prejudice. The production was presented to approximately 3,095 K-12 students. Cost: \$450 with special discounts for reserving multiple performances.

Participating Schools: Champaign County: West Liberty-Salem Local—West Liberty-Salem Elementary. Franklin County: Columbus City —Binns Elementary, Clinton Elementary, East Columbus Elementary, Easthaven Elementary, Winterset Elementary; Gahanna-Jefferson City—High Point Elementary; Reynoldsburg City—Graham Road Elementary.

Ohio State Contact: Department of Theatre, College of the Arts, 614-292-7258, theatre.osu.edu. Internal Partners: College of Humanities, Department of English.

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 the Arts, 614-292-1053, womenandtech@accad.ohio-state.edu, accad.osu.edu/womenandtech/home.html.



6-8

Grades

ARTS

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: Auglaize County: New Knoxville Local—New Knoxville High. Clark County: Southeastern Local—Miami View Middle. Delaware County: Scioto Juvenile Correctional Facility. Franklin County: Columbus City—Indianola Informal Alternative Elementary, Ridgeview Middle; Dublin City—Dublin Jerome High; A+ Arts Academy; Columbus School for Girls; ELS Afterschool Communities; Metro School. Marion County: Pleasant Local—Pleasant High. Morrow County: Buckhorn Children & Family Services/Tri State Youth Academy.

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 in the International Performing Arts Series for Children: *The Frog Bride* (USA); *Wolf under the Bed* (Switzerland); *At Nightfall* (Canada); *Dan Zanes and Friends* (USA), and *The Japanese Garden* (Italy).

Participating Schools: Franklin County: Columbus City—Cassady Alternative Elementary, East Columbus Elementary, Forest Park Elementary, Indianola Informal Elementary, Scottwood Elementary, Arts Impact Middle, Champion Middle; Hilliard City—Avery Elementary, Hilliard Horizon Elementary; South-Western City—North Franklin Elementary; Columbus Montessori, Columbus School for Girls, George Washington Carver Prep, Headstart CDC, Starting Point Learning Center. Knox County: Centerburg Local—Centerburg Middle. Madison County: London City—London Middle. Montgomery County: Brookville Local—Westbrook Elementary. Summit County: Ohio Distance & Electronic Learning Academy.

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 the Arts, 614-292-2336, music.osu.edu/node/121.

School Matinee and Preview Performances

The Department of Theatre offers matinee performance at Ohio State 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). Each school is asked to complete a tour evaluation. Teachers are asked to assess the performance both in terms of its artistic quality and in terms of its relation to current curriculum. \$5/student.

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

Ohio State Contact: Department of Theatre, College of the Arts, 614-292-7258, theatre.osu.edu.

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. Cost: \$5/student.

Participating Schools: Schools in Franklin County.

Ohio State Contact: School of Music, College of the Arts, 614-292-9926.



6-8
Grades

ARTS

Grades 6-8



6-8

Grades

ARTS

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 forms K-12 learning partnerships with private and public learning institutions. These partnerships have produced interdisciplinary projects and learning experiences as well as opportunities for community engagement. OSU Urban Arts Space partnered with Columbus School for Girls for the Ways of Knowing Water Exhibition. The students visited the gallery space, toured the Lazarus building's rooftop garden, and learned about water conservation. In addition they participated in a sketching and writing response exercise, creating their own artworks and stories about the exhibit.

Participating Schools: Franklin County: Columbus City; Columbus School for Girls.

Ohio State Contact: Urban Arts Space, College of the Arts, 614-292-8861, useducation@osu.edu, uas.osu.edu/programs/schoolengagement.

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: Franklin County: Columbus Catholic Diocese—Bishop Watterson High; Hilliard City—Gifted Department. Marion County: Pleasant Local—Pleasant High.

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

Wexner Center Exhibitions Tours

School groups took tours of the Wexner Center and the fall and spring exhibitions: Andy Warhol—Other Voices Other Rooms; Catch Air: Robin Rhode; COOP Himmelb(l)au—Beyond the Blue; William Forsythe—Transfigurations.

Participating Schools: Athens County: Athens City—Athens High. Auglaize County: New Knoxville Local—New Knoxville High. Clark County: Southeastern Local—Miami View Middle. Clinton County: Wilmington City—Rodger O Borrer Middle. Delaware County: Village Academy. Franklin County: Columbus Catholic Diocese—St Francis DeSales High; Columbus City—Indianola Elementary, Dominion Middle, Hilltonia Middle, Ridgeview Middle, Beechcroft High, Brookhaven High, Columbus Alternative High, Fort Hayes High, Walnut Ridge High; Dublin City—Dublin-Coffman High; Gahanna-Jefferson City—Gahanna Lincoln High; Hilliard City—Hilliard Horizon Elementary; New Albany-Plain Local—New Albany High; Upper Arlington City—Upper Arlington High; A+ Arts Academy; Arts and College Prep Academy, Charles School; Columbus Academy, Columbus School for Girls; Franklinton Learning Center; Graham School; North Broadway Children's Center, Enterprise Works, Primrose School of Dublin, International Academy of Columbus, Ohio School for the Deaf, Wellington School. Hamilton County: Hyde Park Methodist Preschool. Licking County: Granville Exempted Village—Granville High. Madison County: Madison-Plains Local—Madison-Plains High. Marion County: Pleasant Local—Pleasant High. Morrow County: Buckhorn Children & Family Services/Tri State Youth Academy. Pike County: Western Local—Western High. Union County: Fairbanks Local—Fairbanks High; North Union Local—North Union High.

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

Zoom: Children's International Film Festival

During the Wexner Center's fourth annual Children's International Film Festival, elementary and middle school students were introduced to critically acclaimed contemporary and classic films from around the globe. Featured films showed students the experiences, concerns, and languages of children from diverse countries and cultures. Past years' programs have included films from Iran, Spain, Germany, and Brazil. The films this year drew from the best in contemporary and classical cinema to represent a vast spectrum of world views and experiences.

Participating Schools: Franklin County: Columbus Catholic Diocese—St. Agatha Elementary; Wickliffe Progressive Community. Knox County: Centerburg Local—Centerburg Middle.

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



Wexner docent tour with middle school students (photo: Al Zanyk, courtesy of Wexner Center for the Arts)

ATHLETICS

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 any districts/schools/youth.

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3693, www.recsports.osu.edu/accommodations/adapted-programs/.

Learning in Fitness & Education (LiFE) Sports Program

LiFE (Learning in Fitness & Education) 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). 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. Beginning this year, follow-up booster sessions will be provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites. 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 a 2009 Excellence in Engagement grant from the Office of University Outreach and Engagement.

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

Ohio State Contact: College of Social Work, 614-292-6934, www.ohiostatebuckeyes.com/camps. Internal 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: Ohio Department of Education, Office of Safety, Health, and Nutrition; Boys and Girls Club of Columbus.

Project KEY (Keep Engaging Youth)

On May 19, 2009, approximately 50 middle school students from Columbus City Schools visited Ohio State through the Project KEY program for Scarlet Carpet Day. The day began at the Martha Morehouse Medical Pavilion with a presentation on ACL injuries and surgeries. Students then went to the Adventure Recreation Center where they received a hands-on lesson on using tape to work through injuries and learned proper form when jumping or exercising to prevent ACL injury. After lunch, students took an Ohio Stadium tour led by The Ohio State University Red Coats.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: P-12 Project, Office of Academic Affairs, p12@osu.edu, p12.osu.edu. Internal Partners: Ohio State University Medical Center, Sports Medicine; Department of Athletics. External Partners: 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 Decisions Tour

93 youth participated in 4-H Career Decisions tours to the Ohio State University and Agricultural Technical Institute campuses and received information on a variety of careers. Approximately 75% of participants gained information about careers of personal interest, and 67% reported they learned about new career options. Fee: \$20/student.

Participating Schools: Schools in Cuyahoga County.

Ohio State Contact: OSU Extension, Cuyahoga County, 216-429-8200, www.ohio4h.org/youth/teen_pg/index.html.

Project KEY student learns how to tape injuries (photo: Kathy Cameron, P-12 Project)



6-8
Grades

ATHLETICS



Grades 6-8



6-8
Grades

CAREER EXPLORATION AND DEVELOPMENT

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 any districts/schools/youth.

Ohio State Contact: Ohio State University Airport, 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. Grant money in the amount of \$3,000 from Ohio 4-H Foundation and the American Lung Association allowed the purchase of backpacks for each of the participants. Other sponsors were Belmont County 4-H Council and East Ohio Regional Hospital.

Participating Schools: Schools in Belmont County.

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

Black Pilots Association Aviation Career Education Camp

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

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

Ohio State Contact: Ohio State University Airport, 614-247-4366, www.osuairport.org/Education/; Participants must register directly through the BPA at www.obap.org/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: Available only to students entering grades 7-9. Franklin County: Columbus City.

Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-7329, wie.eng.ohio-state.edu/prospective/outreach.htm.

Future Engineers' Summer Camp

Sponsored by The Scotts Miracle-Gro Company, the Women in Engineering Program's 2009 Future Engineers' Summer Camp was held for a total of 30 female students who were going into the eighth grade. Designed to excite and encourage participants' interest in engineering, the 2009 camp introduced these students to a variety of engineering areas through a series of hands-on activities and interactive demonstrations held on the university's Columbus campus. In addition, students visited area businesses and corporations, including Scotts Miracle-Gro and Nestle PTC Marysville, to find out more about what engineers do in the real world. On the Wednesday evening of the camp, participants' parents/guardians were invited to a dinner on the Ohio State campus, where they had the opportunity to talk with members of the camp staff and female engineering professionals from Scotts Miracle-Gro. There is an application fee.

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

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/fesc. External Partner: Scotts Miracle-Gro Company.

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 2008 program served some 315 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 50 female engineering students from Ohio State volunteered at the event, serving as near-peer mentors for the middle school participants. A total of 15 male Ohio State engineering students also participated in the event, helping to set up workshops and assisting with demonstrations throughout the day. The Ohio State Women in Engineering Program collaborated with COSI and the university's Engineering Scholars Program to organize both the male and female engineering student volunteers. COSI ran a concurrent program for parents, teachers, and mentors of middle school girls. This program was designed to help adults understand how to keep middle school girls interested in the fields of math, science, and engineering.

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

Ohio State Contact: Women in Engineering, College of Engineering, 614 292 9769, wieoutreach@osu.edu, www.cosi.org/educators/mentoring/girlsdiscover/. External Partner: COSI.

Introduce a Girl to Engineering Day

Sponsored by Ashland, the Ohio State Women in Engineering Program's 2009 Introduce a Girl to Engineering Day took place at the university's Columbus campus on February 28. Over 200 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 and professionals. As part of this event, the Women in Engineering Program also hosted concurrent sessions for participants' parents/guardians. An estimated 110 parents/guardians attended these sessions, which included a design challenge and a panel discussion with current female engineering students. A total of 110 volunteers were involved in the 2009 event. Of these, 100 were female undergraduate and graduate engineering students enrolled in the Ohio State College of Engineering. The remaining volunteers were Ohio State faculty and staff members and engineering professionals working for Ashland or other organizations and businesses in the Columbus area. 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 2009 Introduce a Girl to Engineering Day @ Columbus School for Girls (CSG) took place on April 24 for CSG students in Forms 5 & 6. A total of 13 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, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#High. External Partner: Ashland.

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, 614-292-9678 ext 4-0884, mycooljob.org/.



*Future Engineers' Summer Camp
(photo courtesy of Women in Engineering)*



6-8
Grades

CAREER EXPLORATION AND DEVELOPMENT

Grades 6-8



6-8
Grades

CAREER EXPLORATION AND DEVELOPMENT

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. Internal 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 40 seventh-grade 4-H students. Four county career centers collaborated with NW Career Day and provided facilities and a computer lab for students to use career development software. The following table shows the success of the event. Pre/post evaluation data showed increases in the percentages of students responding positively to the following: getting more education or training after high school (from 34% to 97%); waiting until I am financially ready before having children (from 34% to 95%), and learning how to make wise financial decisions (from 24% to 95%).

Participating Schools: Available to 4-H in a five-county area (Defiance, Fulton, Henry, Paulding, Williams).

Ohio State Contact: OSU Extension, Defiance County, defiance.osu.edu.

Women in Engineering Classroom Visits Program

The Women in Engineering Program (WiE) visited four different schools and homeschool groups as part of the 2008-09 WiE Classroom Visits Program, reaching students in grades 1-12. 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: Available to schools in the Columbus area. Delaware County: Homeschool Group. Franklin County: Columbus Catholic Diocese—Bishop Hartley High, Bishop Watterson High; Dublin City—Indian Run Elementary.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#All.

Women in Science Day

The Women in Science Day, sponsored by the Association for Women in Science of Central Ohio, brings talented girls in the sixth to ninth grades to The Ohio State University. The program features hands-on workshops, tours, and demonstrations led by faculty from Ohio State and other universities with expertise in science, mathematics, engineering, and medicine. Workshop topics range from aquatic biology to wildlife ecology. Women in Science Day is held in March in honor of Women's History Month. The 25th Women in Science Day was held on March 19, 2009. Over 300 girls and teachers in gifted and talented programs from 19 school districts from around Ohio attended. Byrd Polar Research Center (BPRC) served as a host site for groups of middle school students who were interested in changes that have been observed in the world's glaciers. BPRC hosted two hands-on sessions where students had an opportunity to observe and predict the movement of a substance called Flubber that behaves very much like glacial ice as it flows. Approximately 25 young women participated in this event, accompanied by their teachers.

Participating Schools: Ashland County: Ashland City—Ashland Middle. Butler County: Veritas Christian Homeschool Group. Clermont County: Batavia Local—Batavia Middle. Cuyahoga County: Independence Local—Independence Middle. Franklin County: Worthington City—Kilbourne Middle. Knox County: Danville Local—Danville Middle. Lake County: Madison Local—Madison Middle. Logan County: Benjamin Logan Local—Benjamin Logan Middle. Lorain County: Amherst Exempted Village—Amherst Jr High. Marion County: Pleasant Local—Pleasant Middle. Medina County: Cloverleaf Local—Cloverleaf Middle. Montgomery County: Valley View Local—Valley View Middle; Vandalia-Butler City—Morton Middle, Smith Middle. Perry County: Crooksville Exempted Village—Crooksville Middle. Portage County: Kent City—Stanton Middle. Van Wert County: Van Wert City—Van Wert Middle. Wayne County: Dalton Local—Dalton Intermediate. Wood County: Lake Local—Lake Middle.

Ohio State Contact: School of Allied Medical Professions, College of Medicine, 614-268-1488, womeninscienceday@gmail.com, awisco.osu.edu/. Internal Partners: Colleges of Mathematical and Physical Sciences, Optometry, Pharmacy, Engineering; Byrd Polar Research Center, Office of Research.

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: Available to any districts/schools/youth. Franklin County: South-Western City—Franklin Heights High. **Ohio State Contact:** Economic Access Initiative/Office of Academic Affairs, 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.

Participating Schools: Open to any underserved group (low income, minority, or first generation to college). 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; 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: Office of Undergraduate Admissions and First Year Experience, accesstours@osu.edu.

Alternative Spring Break: Adams and Brown 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 and Brown 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 four area schools plus 4-H leadership and robotics training, 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 and Brown counties.

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

Baseball Day

The Ohio State University continues to partner with Columbus City Schools (CCS) to promote higher education aspiration and access. Each year, Baseball Day brings more than 3,000 sixth-grade students and CCS staff 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%. The 2009 edition of Baseball Day featured members of Ohio State ROTC rappelling from the ceiling of the Schottenstein Center, a science demonstration from COSI with exploding pop bottles, a message of encouragement from a Young Scholar/CCS graduate, and a math quiz, game-show style, hosted by the chair of the Mathematics Department at Columbus State Community College. Lunch and a baseball game completed the day.

Participating Schools: Franklin County: Columbus City middle schools' sixth-grade students who meet attendance and behavior requirements.

Ohio State Contact: Department of Athletics, 614-688-3264, p12.osu.edu/baseballday.php; www.osu.edu/cpsday/. Internal 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.



6-8
Grades

COLLEGE ACCESS AND ASPIRATION

Grades 6-8



6-8
Grades

COLLEGE ACCESS AND ASPIRATION

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 a presentation for parents of middle school children titled Be Ready for College. Admission counselors from Ohio State and other local colleges have presented this program at parent nights with Columbus City Schools. Consortium members presented information on college readiness to students participating in the Columbus City Schools' Summer Bridge Program. Students in this program were eighth graders preparing for college; the presentation was designed to help them start high school strong in order to be prepared for college.

Participating Schools: Franklin County: Columbus City, Hamilton Local, South-Western City, Westerville City.
Ohio State Contact: Office of Undergraduate Admissions and First Year Experience, 614-688-4488.

Breakfast of Science Champions

The Breakfast of Science Champions (BOSC) 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. Campus visits are offered on one day in November and one day in February each year. Students meet faculty and graduate students from the sciences while enjoying a continental breakfast, tour labs, participate in demonstrations, and learn about science careers. After visiting campus, students and their teachers prepare an electronic presentation (essay, poem, song, movie, PowerPoint, drawing, etc. about their Breakfast of Science Champions visit. They share these presentations with students at other schools through the Breakfast of Science Champions Media Manager site. In 2008-2009, over 500 students and their teachers participated. Students complete a college aspiration survey, based on the benchmark set by the P-12 Project. This survey is intended to capture information about how the BOSC visits expand student awareness of careers and college going. Schools pay transportation of their students to campus sites.

Participating Schools: Available to all districts/schools/youth in Ohio. 2008-09: Cuyahoga County: Cleveland Municipal, Maple Heights City, Solon City. Delaware County: Big Walnut Local. Franklin County: Columbus City, Dublin City, Grandview Heights City, Hilliard City, New Albany-Plain Local, South-Western City, Upper Arlington City, Westerville City, Worthington City. Hamilton County: Cincinnati area Young Scholars students. Licking County: Heath City. Lucas County; Toledo area Young Scholars students. Montgomery County: Dayton area Young Scholars students. Portage County: Ravenna City. Scioto County: Washington-Nile Local.

Ohio State Contact: Office of Academic Affairs, 614-688-5557, ascommunitypartnerships.osu.edu/ScienceChampions.cfm. Internal Partners: Byrd Polar Research Center, Office of Research; College of Engineering; Colleges of the Arts and Sciences; College of Veterinary Medicine; Orton Geological Museum, School of Earth Sciences, Center for Emergent Materials, College of Mathematical and Physical Sciences; N.E.U.R.O., Center for Molecular Neurobiology, College of Medicine; Department of Human Nutrition, College of Education and Human Ecology; Biological Sciences Greenhouse, College of Biological Sciences; OSU Airport, College of Engineering; Ohio Agricultural Research and Development Center, Nationwide and Ohio Farm Bureau 4-H Center, College of Food, Agricultural, and Environmental Sciences; Ohio State Mansfield. External Partner: Middle School Gifted and Talented Program, Columbus City Schools.

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, acesstours@osu.edu, www.campusvisit.osu.edu/group.



*Breakfast of Science Champions
(photo courtesy of Center for Emergent Materials)*



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, Ridgemont Local, Riverdale Local, Upper Scioto Valley Local.

Ohio State Contact: Economic Access Initiative, Office of Academic Affairs, 614-292-3343, www.osu.edu/access. Internal Partners: OSU Extension/OSU CARES, College of Education and Human Ecology. External Partner: 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 a partnership with the Southern Ohio Center of Excellence at Southern State Community College, has implemented a 6-year grant for college access. The program reached 576 students in the West Union School system. The GEAR UP program is one of the contributing factors for the school system's excellent rating (per the Ohio Department of Education's rating system). This rating means that the students have met or exceeded academic and attendance measures.

Participating Schools: Adams County: Adams County/Ohio Valley Local—West Union High.

Ohio State Contact: OSU Extension, Brown County, 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, www.marion.ohio-state.edu/ican/.

Indianola Middle School College Awareness Program

The Student-Alumni Council conducts a college awareness program for the Indianola after-school program. Students from SAC visit the local middle school in order to inspire their academic pursuits. The theme of the curriculum for second year is high school preparation and university student life. SAC students are sharing advice and skills for prospering in high school, which will then open the door for university admission and higher education. SAC is sponsoring visits to Ohio State's campus for the middle school students to provide a firsthand perspective on college life and the campus atmosphere.

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

Ohio State Contact: Student-Alumni Council, sac.ohiostatealumni.org/newsarchive/CollegeAwarenessProgram2008.php. Internal Partners: OSU Extension; Office of Undergraduate Admissions and First Year Experience.

Grades 6-8



6-8
Grades

COLLEGE ACCESS AND ASPIRATION

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; KIPP Journey Academy. Licking County: Licking Heights Local—Licking Heights West.

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

Ohio State Spring Visit for Arts, Humanities and Social Studies

78 eighth graders and their teachers from Columbus City Schools (CCS) Gifted and Talented Program visited campus to participate in hands-on workshops. They learned about fields of study new to them and about college by talking with professors and graduate and undergraduate students from Arts, Humanities, and Social Sciences. They also heard a presentation from the Economic Access Initiative. The project is co-designed with teachers in the CCS Gifted and Talented Program. Students complete a college aspiration survey based on one developed by the P-12 Project for middle school partnerships.

Participating Schools: Columbus City Schools and Young Scholars Programs across Ohio.

Ohio State Contact: Colleges of the Arts and Sciences, 614-688-5557, ascommunitypartnerships.osu.edu/MiddleSchools.cfm. Internal Partners: P-12 Project, Office of Academic Affairs; Economic Access Initiative, Office of Academic Affairs; Humanities Scholars, Departments of African and African American Studies, English, History, Linguistics, and Museum of Classical Archaeology, College of Humanities; Department of Dance, Arts Scholars, College of the Arts; Department of Geography, College of Social and Behavioral Sciences.

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. Butler County: Hamilton City—Hamilton Freshman School. Cuyahoga County: Mayfield City—Mayfield Center Elementary. 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, Office of Academic Affairs, 614-688-0474, p12.osu.edu.

Rising Scholars Summer Camp

Held on the Ohio State Mansfield campus, Rising Scholars Summer Camp gives local middle school students a college-like experience working with faculty members. It is designed to help young students realize that college is a viable option for their future. Students take part in hands-on math and chemistry classes and also choose electives. Twenty students from Mansfield City Schools, Mansfield Christian, and Mansfield St. Peter's participated in the third year of the summer camp.

Participating Schools: Richland County: Mansfield City—Brinkerhoff Intermediate, Hedges Elementary, Sherman Elementary, Springmill Elementary, Malabar Middle; Toledo Catholic Diocese—St. Mary Elementary, St. Peter Elementary; Mansfield Christian Elementary; Mansfield Community School; Temple-Christian School.

Ohio State Contact: College of Education and Human Ecology, Ohio State Mansfield, 419-755-4360.

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, 614-292-6637. Internal Partner: Economic Access Initiative, Office of Academic Affairs. External Partner: I Know I Can.



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: Office of Minority Affairs, 614-292-4884, oma.osu.edu/current-students/young-scholars-program/.

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: OSU Extension, Stark County, stark.osu.edu/4-h-youth-development.

Gardening Angels

Gardening Angels connects volunteers with schools in order to establish gardening and beautification programs. Schools provide the students, and Extension Master Gardener volunteers provide the expertise and direction for developing a project. Any grade level can participate.

Participating Schools: Clark County: Northeastern Local—Northridge Elementary; Springfield City—Snowhill Elementary.

Ohio State Contact: OSU Extension, Clark County, clark.osu.edu.

Mini-Community

By means of peer teaching and direct service-learning, students learn financial responsibility and real-world skills. Older teens develop activities and lessons, working with the county extension educator, to guide sixth-graders through lessons about financial obligations and being a part of society. Sixth-grade students participate in a mini-community, acting as government officials, starting businesses, developing plans, and setting goals. The sixth graders perform as peer teachers to each other, and then they lead the third-grade classes in an educational money budgeting, saving, and spending activity. About 20 high school students (grades 9-11) acted as mentors and teachers to sixth-grade students. Then the high school students and sixth graders taught all third-grade classes one morning. A grant funded this program only for Hillsboro City Schools for 2008.

Participating Schools: Highland County: Hillsboro City.

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

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.

Grades 6-8



6-8
Grades

C
OUNSELING/PSYCHOLOGY

Serving with Honor

Serving with Honor is an Honors and 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 worked 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: 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. Internal Partner: Economic Access Initiative, Office of Academic Affairs.

C OUNSELING/PSYCHOLOGY

Attendance Intervention

Attendance Intervention is a program in which the school sends a letter to the family when a student has missed excessive days from school. The family is notified that they must schedule an educational session with the Extension Family and Consumer Sciences Educator to discuss the importance of being in school and brainstorm solutions to the problem of absences. This program began in 2001 and has resulted in a steady decline of students missing school and needing to be referred. Sometimes referrals to other agencies can also be made to assist the family.

Participating Schools: Wyandot County: Carey Exempted Village, Mohawk Local, USEVS Exempted Village.

Ohio State Contact: Wyandot County, OSU Extension, 419-294-4931.

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: Schools that are within a 10-mile radius of Ohio State, Franklin County: Columbus City—Champion Middle, Dominion Middle.

Ohio State Contact: Moritz College of Law, 614-688-4918, moritzlaw.osu.edu/students/groups.php?ID=14. External Partners: 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. The Real Colors program was presented to 10 different groups with 135 teens and 68 adults participating. Participants felt the Real Colors program helped them identify their personal strengths, learn to recognize strengths in others, discover more effective ways to interact with people, and be more accepting of others.

Participating Schools: Muskingum County: Zanesville City—Grover Cleveland Middle.

Ohio State Contact: OSU Extension, Muskingum County, 740-454-0144, muskingum.osu.edu.

Targeting the School Bully: An Intervention with 7th and 8th Graders

Senior Nursing students in N511 worked with seventh- and eighth-grade students at Hilltonia Middle School on an intervention program designed to teach students how to deal with bullying.

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

Ohio State Contact: College of Nursing, 614-292-4526.



Truancy Prevention Seminar

A 1½ hour seminar was offered one evening per month for truant middle and high school students and their parents during the school year at the Medina County Career Center by Family and Consumer Sciences staff as an alternative intervention for students violating Senate Bill 181. Students and their parents were referred to the program in order to avoid a referral to Juvenile Court for truancy. The class presented information on the consequences of truancy and separate sessions for parenting and information for students on money, scheduling, etc. \$10 fee per family.

Participating Schools: Schools in Medina County.

Ohio State Contact: OSU Extension, Medina County, medina.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. In partnership with the Lawrence County MRDD Open Door School, 73 students (ages 6-21) at the school for mentally and/or physically disabled youth were members of an in-school 4-H club.

Participating Schools: Huron County: Christie Lane MR/DD School. Lawrence County: Lawrence County MR/DD Open Door School.

Ohio State Contact: OSU Extension, Huron County, huron.osu.edu; Lawrence County, lawrence.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 any districts/schools/youth.

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3693, www.recsports.osu.edu/accommodations/adapted-programs/.

ENGINEERING

4-H Robotics: Youth in Science, Engineering, and Technology in the City

The 4-H Robotics Program provided a hands-on approach to science, engineering, and technology learning with opportunities that helped youth master life challenges, cultivate independence with guidance from caring adults, develop a sense of belonging within a positive group, and share their spirit of generosity toward others. Participation in robotics was a hands-on application of math, science, and technology. Twenty-five youth worked together, developed and practiced work-related competencies: project and time management, resource allocation, information accessing, systems understanding, teamwork, and problem solving.

Participating Schools: Schools in Stark County.

Ohio State Contact: OSU Extension, Stark County, 330-830-7700 ext. 115, stark.osu.edu.

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/.

Grades 6-8



6-8

Grades

ENGINEERING

*Future
Engineers'
Summer
Camp (photo
courtesy of
Women in
Engineering)*

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: Available only to certain districts/schools/youth. Franklin County: Columbus City students entering grades 7-9.

Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-7329, wie.eng.ohio-state.edu/prospective/outreach.htm.

Future Engineers' Summer Camp

Sponsored by The Scotts Miracle-Gro Company, the Women in Engineering Program's 2009 Future Engineers' Summer Camp was held for a total of 30 female students who were going into the eighth grade. Designed to excite and encourage participants' interest in engineering, the 2009 camp introduced these students to a variety of engineering areas through a series of hands-on activities and interactive demonstrations held on the university's Columbus campus. In addition, students visited area businesses and corporations, including Scotts Miracle-Gro and Nestle PTC Marysville, to find out more about what engineers do in the real world. On the Wednesday evening of the camp, participants' parents/guardians were invited to a dinner on the Ohio State campus, where they had the opportunity to talk with members of the camp staff and female engineering professionals from Scotts Miracle-Gro. There is an application fee.

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

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/fesc. External Partner: Scotts Miracle-Gro Company.

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 2008 program served some 315 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 50 female engineering students from Ohio State volunteered at the event, serving as near-peer mentors for the middle school participants. A total of 15 male Ohio State engineering students also participated in the event, helping to set up workshops and assisting with demonstrations throughout the day. The Ohio State Women in Engineering Program collaborated with COSI and the university's Engineering Scholars Program to organize both the male and female engineering student volunteers. COSI ran a concurrent program for parents, teachers, and mentors of middle school girls. This program was designed to help adults understand how to keep middle school girls interested in the fields of math, science, and engineering.

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

Ohio State Contact: Women in Engineering, College of Engineering, 614 292 9769, wieoutreach@osu.edu, www.cosi.org/educators/mentoring/girlsdiscover/. External Partner: COSI.



Introduce a Girl to Engineering Day

Sponsored by Ashland, the Ohio State Women in Engineering Program's 2009 Introduce a Girl to Engineering Day took place at the university's Columbus campus on February 28. Over 200 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 and professionals. As part of this event, the Women in Engineering Program also hosted concurrent sessions for participants' parents/guardians. An estimated 110 parents/guardians attended these sessions, which included a design challenge and a panel discussion with current female engineering students. A total of 110 volunteers were involved in the 2009 event. Of these, 100 were female undergraduate and graduate engineering students enrolled in the Ohio State College of Engineering. The remaining volunteers were Ohio State faculty and staff members and engineering professionals working for Ashland or other organizations and businesses in the Columbus area. 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 2009 Introduce a Girl to Engineering Day @ Columbus School for Girls (CSG) took place on April 24 for CSG students in Forms 5 & 6. A total of 13 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, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#High. External Partner: Ashland.

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.

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

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

Science for the Holidays

Hosted by the Ohio State Women in Engineering Program and the Girl Scouts-Seal of Ohio Council, Inc., the 2008 Science for the Holidays event took place on December 6, at the Girl Scouts area headquarters. A total of 22 female students in grades 5-12 participated in this event. After an introduction to the fields of civil engineering and architecture, participants were divided into teams and given the task of building a structure out of gingerbread and candy that was both stable and aesthetically pleasing. At the end of the event, participants were asked to present their structures to a Girl Scouts employee who determined the winning team. In addition to a Women in Engineering staff member, 13 female engineering undergraduate volunteers helped to run this event.

Participating Schools: Open to Girl Scouts.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs. External Partner: Girl Scouts-Seal of Ohio Council, Inc.

Women in Engineering Classroom Visits Program

The Women in Engineering Program (WiE) visited four different schools and homeschool groups as part of the 2008-09 WiE Classroom Visits Program, reaching students in grades 1-12. 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: Available to schools in the Columbus area., Delaware County: Homeschool Group. Franklin County: Columbus Catholic Diocese—Bishop Hartley High, Bishop Watterson High; Dublin City—Indian Run Elementary.

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/wie-pre-college-programs#All.



6-8
Grades

E
N
G
I
N
E
E
R
I
N
G

Grades 6-8

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: OSU Extension, Stark County, stark.osu.edu/4-h-youth-development.

Literacy Collaborative®

Literacy Collaborative® is a comprehensive school reform project designed to improve the reading, writing, and language skills of elementary children. School-based literacy coordinators attend 7-8 weeks of training at Ohio State to learn to be onsite staff developers and coaches. Team Planning and Principals' Leadership Academy are additional opportunities to learn more about Literacy Collaborative®. Reading Recovery is strongly recommended in all Literacy Collaborative® schools for at-risk first-grade readers. Schools are asked for a 5-year commitment when they make the decision to become affiliated with the Literacy Collaborative® network. There are fees for instruction, professional development, affiliation, research, materials, and travel. IMPACT Literacy K-6 offers professional development for literacy coaches and teachers to raise achievement in reading and writing. The focus is on implementing research-based practices and developing collaborative learning communities. A fee accompanies the various professional development offerings through Literacy Collaborative, Reading Recovery and IMPACT Literacy. See websites for details.

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

Ohio State Contact: Literacy Collaborative®, College of Education and Human Ecology, 614-688-4977, www.lcosu.org; www.rrosu.org. External Partners: Lesley University, Cambridge, MA; Georgia State University, Atlanta, GA.

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

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:

Cuyahoga County—In 2008, 106 youth participated in a special out-of-school time program, Cooking up Fun, that taught them basic food preparation and kitchen/food safety principles. Cooking up Fun was an expansion of the Youth EFNEP summer program. The goal of the program was to teach children the basic nutrition and food safety concepts inherent to EFNEP and have them apply these ideas to working in the kitchen and preparing healthy foods/snacks. Participating youth were able to learn basic food preparation techniques; identify kitchen utensils; and prepare simple meals/snacks. Following completion of the program, nearly 85% of participating youth reported that they can follow directions in a recipe easily and independently and that they can prepare healthy



6-8
Grades

ENGLISH

Grades 6-8



6-8
Grades

F
AMILY AND CONSUMER SCIENCES

foods for themselves and their families. 117 youth from 5 community partner organizations participated in the Kids Cafe Program, a program that provides a comprehensive set of tools that addresses food poverty among our city's children. In addition to food, the Kids Cafe provides fun and educational services that focus on nutrition, fitness, and cultural activities with the goal of developing healthy lifestyles at an early age.

Meigs County—Healthy lifestyle programs were held at the Mulberry Community Center's God's N.E.T. (Neighbor Escape for Teens), an after-school program. Nineteen students in grades ranging from second grade to high school prepared nutritious snacks after a discussion of each of the MyPyramid food groups. These lessons were reinforced by playing MyPyramid Bingo. Twenty-five students learned the importance of hand washing using the glo-germ teaching tool. Daily exercise was reinforced with a physical activity at the end of each educational session.

Richland County—Third- through sixth-grade students participated in a series of nutrition education classes via a partnership/grant with Madison Local Schools. Students practiced making healthier food choices, including eating more vegetables, planning healthy meals and snacks, and reading nutrients on food labels. Additional support was gained from parents and school personnel. More than 1,000 students received a colorful MyPyramid information sheet to share and discuss with family members. Teachers in these grade levels received nutritional education materials for follow-up use in the classroom as a result of the grant.

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 of the topics explored.

Wayne County—With the rise in childhood obesity more than 20 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 300 children through 13 classes teaching wise nutritional snack choices. More than 90% verbally indicated they have tried new foods and recipes and learned new food preparation skills. Each class is \$6.50 per student, and they usually are offered in a series of three, in fall.

Wyandot County—The Nutrition and Healthy Habit Series is a program offered each month to second-grade students at East Elementary and South Elementary School in Upper Sandusky. A different nutritional topic is covered each month with hands-on activities and food sampling included. Third graders from last year's series demonstrated that they now pack and eat healthful foods for lunch.

Participating Schools: Schools in Cuyahoga and Meigs counties. Richland County: Madison Local. Shelby County: Hardin-Houston Local—Hardin Elementary; Sidney City—Northwood Elementary. Wayne County: Rittman Exempted Village—Rittman Middle; Wooster City—Cornerstone Elementary, Lincoln Way Elementary. Wyandot County: USEVS Exempted Village—East Elementary, South Elementary.

Ohio State Contact: OSU Extension, extension.osu.edu, fcs.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.

Mini Society®

OSU Extension Brown County conducted Mini Society® for 580 fourth, fifth, and sixth graders in the five county school systems. Students learned how to run their own business and learned basic economic principles to increase their profit

Participating Schools: Adams County: Adams County/Ohio Valley Local. Brown County: Eastern Local; Fayetteville-Perry Local; Georgetown Exempted Village; Ripley-Union-Lewis-Huntington Local; Western Brown Local.

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

Grades 6-8



6-8
Grades

FAMILY AND CONSUMER SCIENCES

Money and Investing Fundamentals

Nine library branches in the Cuyahoga County Public Library system offer a 6-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. This program is free and open to the public. 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: OSU Extension, Cuyahoga County, 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, Hocking, Holmes, Jackson, Jefferson, Knox, Lake, Licking, Logan, Lorain, Lucas, Madison, Mahoning, Medina, Meigs, Mercer, Miami, Monroe, Montgomery, Morrow, Muskingum, Noble, Perry, 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, 330-263-3799, 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 participate in nutrition education and physical activities designed to teach them the importance of a healthy lifestyle through daily food choices. Hardin County Extension offered 6 weeks of programming during the Summer Food Service mealsites 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.

Participating Schools: Only a limited number of districts/schools/youth can be served. Clermont County: Felicity-Franklin Local, New Richmond Exempted Village. Schools in Hardin County.

Ohio State Contact: Clermont County, OSU Extension, 513-732-7070. External Partner: Boys and Girls Club of Clermont County.

Youth Educational Shoplifting (YES)

During 2008, 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: OSU Extension, Hocking County, hocking.osu.edu.



6-8
Grades

GLOBAL EDUCATION

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.

Butler County—The EFNEP Youth program assistant presented Food Facts and Fun in 12 classrooms at three Hamilton City schools. She taught 48 class sessions, reaching 203 students, teaching the students about My Pyramid, label reading, food safety, and making good snack choices. Sharing the importance of eating fruits and vegetables and food safety was the main focus of reaching 775 children at the Middletown Free Lunch Sites and the Middletown YMCA this summer.

Clark County—104 youth attended one or more classes on topics including the MyPyramid food guide, food safety, understanding nutrition labels, stretching food dollars, healthy weight management, portion distortion, and healthy snacking.

Cuyahoga County—2,600 school-age youth, both in school and in out-of-school education programming, improved their knowledge of nutrition, food safety, and physical activity through EFNEP youth education. Participating students showed positive behavior changes related to variety of core nutrition concepts. As examples, nearly 70% of third and fourth graders eat breakfast almost every day; 65% of youth participate in daily physical activity; and 80% of youth wash their hands before they touch food.

Franklin County—The 4-H Youth Expanded Food and Nutrition Education Program reached 1,315 youth through school enrichment and summer programs.

Hamilton County—The EFNEP youth program assistant presented Food, Facts, and Fun in 58 classrooms in 232 class sessions reaching over 1,500 youth. These lessons taught students about MyPyramid, label reading, food safety, and making good snack choices.

Mahoning County—The EFNEP Program for Youth reached 408 children in 2008. Through 21 groups in classroom settings, community centers, churches, and afterschool programs children developed healthy eating patterns and skills in making wise food choices and preparing nutritious snacks.

Stark County—445 youth participated in the 4-H EFNEP, learning wise snack choices and how to get more fresh fruits and vegetables into their daily diet.

Summit County—Youth EFNEP reached 1,991 youth through school, after-school, and summer food programs. The classes focused on developing skills to make healthy eating choices and increase physical activity to reduce the risk of obesity and chronic disease.

Participating Schools: Butler County: Hamilton City. Cuyahoga County: Brooklyn City, Cleveland Municipal, East Cleveland City, Lakewood City, Parma City. Youth in Clark, Clermont, Coshocton, Franklin, Hamilton, Hardin, Jackson, Lawrence, Lorain, Lucas, Mahoning, Montgomery, Ross, Scioto, Summit, Vinton, Washington counties.

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.

Grades 6-8



6-8

Grades

GLOBAL EDUCATION

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 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 any schools, 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 Eastern 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. Artifact Boxes contain hands-on objects to teach about Russia. These boxes can be rented, free of charge, for a 2-week period. They contain visual aids to help teach about Russia and the former Soviet Union.

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.

Traveling Exhibits

The Ohio State International Photography winning entries are available as a traveling exhibit. The photographs represent different areas of the world and were taken by Ohio State students, faculty, and staff members who have traveled abroad. Over 15,200 parents, teachers, and students have viewed the photos that include educational descriptions in the photographer's own words. Background information on the places featured in the photographs is also included. To request the international photography exhibit, e-mail outreach@oia.osu.edu.

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

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

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.

H

HEALTH, FITNESS, AND SAFETY

Activate Youth

Activate Youth is a collaborative effort between a local pediatrician, Licking Memorial Hospital, Licking County YMCA, and OSU Extension. In 2008, over 70 youth (ages 8-12) and families enrolled in the 12-week program. Approximately 25% of participants lost weight while others maintained their weight during the program. Also, 100% reported being more physically active. In addition, more than 500 school-aged children participated in educational programs related to healthy choices, portion sizes, and eating out.

Participating Schools: Schools in Licking County.

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

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. Grant money in the amount of \$3,000 from Ohio 4-H Foundation and the American Lung Association allowed the purchase of backpacks for each of the participants. Other sponsors were Belmont County 4-H Council and East Ohio Regional Hospital.

Participating Schools: Schools in Belmont County.

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



6-8
Grades

H
HEALTH, FITNESS, AND SAFETY

Grades 6-8



Grades
6-8

HEALTH, FITNESS, AND SAFETY

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: Schools in Holmes County.

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 6th-8th grades, topics included traffic & sports safety, effects of drugs/alcohol, bullying & safety around guns/knives. 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—Tus-sing 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 Arling-ton City—Jones Middle; Westerville City—Westerville Central; Worthington City—Colonial Hills Elementary, Thomas Worthington High; 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: OSU Extension, Auglaize County, auglaize.osu.edu.

Fitness for Teens Library Outreach

The Group Fitness Program of Recreational Sports provides a lecture on fitness to various teenage youth at multiple Columbus Metropolitan Libraries throughout the summer. This program has been offered for the past few summers at approximately 10 different branches. Group Fitness staff members speak on such topics as nutrition, cardiovascular exercise, and strength training. An outreach rate of \$35/hour is charged for each hour-long session at the various branches.

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

Ohio State Contact: Recreational Sports, Office of Student Life, 614-688-3636. External Partner: Columbus Metropolitan Libraries.

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.

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, www.pharmacy.ohio-state.edu/outreach/generation-rx. Internal Partner: Student Wellness Center, Counseling & Consultation Services, Office of Student Life.

Learning in Fitness & Education (LiFE) Sports Program

LiFE (Learning in Fitness & Education) 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). 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. Beginning this year, follow-up booster sessions will be provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites. 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 a 2009 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.ohiostatebuckeyes.com/camps. Internal 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: Ohio Department of Education's Office of Safety, Health, and Nutrition; Boys and Girls Club of Columbus.

Ohio Optometric Association Realeyes™ Classroom Initiative

Realeyes™ connects classrooms with eye doctors in the community. Now in its eighth year, Realeyes™ has been presented to 330,000 students in over 1,100 schools throughout Ohio. The Ohio Optometric Association, through a grant from the Ohio Department of Health Save Our Sight fund, created Realeyes™, which consists of three age-appropriate, standardized, interactive classroom presentations. The associate dean of The Ohio State University College of Optometry oversees optometry students who go into central Ohio schools to present the Realeyes™ programs.

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

Ohio State Contact: College of Optometry, 614-292-2020, www.youtube.com/sosrealeyes. External Partners: Ohio Optometric Association, Ohio Department of Health.

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. The goals were to place a greater emphasis on prevention and healthy lifestyles while making the presentation more appropriate for a middle school audience. 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. 2008-09 participants: Franklin County: Columbus City—North Linden Elementary, Johnson Park Middle, Ridgeview Middle, Sherwood Middle, Woodward Park Middle, Yorktown Middle; Hilliard City—Hilliard Tharp Middle.

Ohio State Contact: College of Pharmacy, www.pharmacy.ohio-state.edu/ASP/operation_diabetes/.



6-8
Grades

HEALTH, FITNESS, AND SAFETY

*LiFE Sports
exercise science
class (photo:
Cindy Overly)*

Grades 6-8



6-8
Grades

HEALTH, FITNESS, AND SAFETY

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: Only a limited number of districts/schools/youth can be served. Additional schools could be served if interest and funding are available. 2008-09: 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.

School Wellness

Workshops provided by Lorain County School Health Coalition are open to all schools in Lorain County.

Participating Schools: Schools in Lorain County.

Ohio State Contact: OSU Extension, Lorain County, lora@osu.edu, lorain.osu.edu.

Steps to a Healthier Cleveland

Ohio State University Extension's Expanded Food and Nutrition Education Program (EFNEP) and community gardening program are part of a citywide collaborative, funded by the Centers for Disease Control and Prevention, focused on reducing the incidence of obesity, diabetes, and asthma through programs related to nutrition, physical activity, and smoking cessation. During the 2008-09 school year, a youth EFNEP program assistant funded through Steps reached 656 fifth- and sixth-grade students at 11 Steps schools located in target intervention neighborhoods. Youth participating in this program learned core nutrition, food safety, and physical activity concepts over the course of four weekly sessions. A food origin component was also added to this program so that children could identify foods with their country or area of origin. Children also had the opportunity to share foods that are native to their family's country of origin. In its fifth year, Steps to a Healthier Cleveland ended in September 2009.

Participating Schools: Schools located in the Steps target intervention neighborhoods (City of Cleveland). Cuyahoga County: Cleveland Municipal—Anton Grdina Elementary, Artemus Ward Elementary, Bolton Elementary, Carl & Louis Stokes Academy, Daniel E. Morgan Elementary, Harvey Rice at Jesse Owens Elementary, Joseph Gallagher Elementary, Louisa May Alcott Elementary, Orchard School of Science Elementary, Patrick Henry Elementary, Tremont Montessori, Union Elementary.

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

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 concepts that are applicable to horticulture, gardening, and environmental ideals. As part of this program, youth participants are exposed to the following subject areas: building a healthy base—MyPyramid for Kids and composition of soil; germination; identification of plant parts; proper seeding of a plant (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 having a garden site for use 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. During summer 2009, To the Garden We Grow served 488 youth at 12 community/out-of-school-time sites throughout Cuyahoga County. External grant funding from Family Children First Council, administered through Starting Point, Inc. as part of the MYCOM initiative, supplemented costs for this program in 2009. In 2010, To the Garden We Grow will be partially funded through the General Mills Champion for Healthy Kids program.

Participating Schools: Schools in Cuyahoga County.

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 awareness of 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/resources/aaascec/programs/default.cfm. Internal Partners: College of Humanities, African American and African Studies Community Extension Center; College of Medicine; College of Mathematical and Physical Sciences.

Mathersize Summer Mathematics Camp

Mathersize is a weeklong day camp intended for 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.

Young Women's Empowerment Conference

This annual conference brought young women from Columbus City Schools together to encourage their engagement in math and science. The College of Biological Sciences offered a hands-on workshop.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: College of Biological Sciences, 614-292-8772. Internal Partners: College of Mathematical and Physical Sciences, College of Engineering.

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.



6-8
Grades

M
ENTORING AND TUTORING

Grades 6-8



6-8

Grades

MENTORING AND TUTORING

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 2008-09, 335 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. Evaluation of a sample of 147 mentees found that 70.4% of youth improved in at least half of 21 developmental assets, with significant improvement in the ability to express feelings, decision making, school preparedness, and trust. Mentees academic performance increased by 69%, relationships with peers improved 63%, and mentee's self-confidence improved 76%. A survey of the Ohio State mentors showed that 60% believed they increased skills in working with diverse urban children, increased their own maturity, and reinforced their commitment to community service. There may be a cost for training and/or background checks.

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.

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/programs.html.

Girls Circle

Girls Circle is a research-based program that is essentially a structured support group for girls aged 9-18. Participants in the program meet weekly for 8-12 weeks for guided discussion, creative activities, and personal reflection. University Honors and Scholars students in a year-long immersion project on women's issues were trained to become Girls Circle facilitators and lead circles in local schools.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: W.C. Cupe Community.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794. Internal Partners: Economic Access Initiative, Women's Place, Office of Academic Affairs.

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. The Grandletters program concluded its third year with 76 fourth-grade students from Newark City and Licking Heights schools corresponding with their senior citizen grandpals. Students improved their writing and literacy skills and culminated the year by hosting their grandpals at a party. In Portage County, Grandletters was conducted at Tappan Elementary and Waterloo Middle School.

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

Ohio State Contact: Licking County, OSU Extension, www.ohio4h.org.



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 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 Student Life, 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, Big Brothers Big Sisters 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. Big Brothers Big Sisters 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 Social and Behavioral Sciences, Ohio State Marion, 740-725-6109, 740-725-6152. Internal Partner: College of Humanities, Department of English. External Partner: Big Brothers Big Sisters of Marion County.

Project Mentor

The Ohio State University Alumni Association partnered with Big Brothers Big Sisters and the Columbus City Schools to promote Project Mentor. Project Mentor was developed to boost the high school graduation rate from 73% to 90% by the year 2012.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Alumni Association, 614-292-2371, www.ohiostatealumni.org/osuaa_events/projectmentor.php.

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 Partners: YWCA-Lima.

Grades 6-8

SCIENCE

4-H for a Day

4-H for a Day works with Springfield City elementary and middle school age youth to enhance and expand science, engineering, and technology skills as well as develop healthier lifestyles. The program is delivered at community partnering sites over a series of weeks. Local teens develop workforce skills while serving as teachers, facilitators, and mentors.

Participating Schools: Clark County: Springfield City.

Ohio State Contact: Clark County, OSU Extension, clark.osu.edu.

4-H Robotics: Youth in Science, Engineering, and Technology in the City

The 4-H Robotics Program provided a hands-on approach to science, engineering, and technology learning with opportunities that helped youth master life challenges, cultivate independence with guidance from caring adults, develop a sense of belonging within a positive group, and share their spirit of generosity toward others. Participation in robotics was a hands-on application of math, science, and technology. Twenty-five youth worked together, developed and practiced work-related competencies: project and time management, resource allocation, information accessing, systems understanding, teamwork, and problem solving.

Participating Schools: Schools in Stark County.

Ohio State Contact: OSU Extension, Stark County, 330-830-7700 ext. 115, stark.osu.edu.

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 74,000 youth from nearly 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.ag.ohio-state.edu/~scialive/.

4-H Space Adventure Camp

The 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.

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, www.ohio4h.org/youth/EventsandOpport/.



6-8
Grades

SCIENCE



A Bug's World

Over 1,100 students representing 71 schools and 17 Ohio counties made their way to the Ohio Agricultural Research and Development Center (OARDC) last spring to get an up-close-and-personal look at what A Bug's World is really like by learning 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, which connected with all six of the state's science content standards and address around 70% of the state's science benchmarks. Since the program began in 2003, more than 5,000 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. 2008-09: Lucas County: Ohio Virtual Academy High. Richland County: Mansfield Christian. Stark County: Hope Academy. Summit County: Copley/Fairlawn City—Arrowhead Primary Elementary. Wayne County: Green Local—Smithville Elementary; Northwestern Local—Northwestern Elementary; Triway Local—Wooster Twp Elementary. Wooster City—Cornerstone Elementary, Kean Elementary; Kingsway Christian.

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.

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 Mathematical and Physical 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 hand-outs.

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

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

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). \$2 per person.

Participating Schools: Available to all districts/schools/youth in Ohio. Also available to home schools, summer programs, and preschools. 2008-09: Franklin County: Columbus Catholic Diocese—Immaculate Conception Elementary, St. Michael's Elementary, Trinity Elementary; Columbus City—Sullivant Elementary, Northland High; Upper Arlington City—Wickliffe Elementary; Worthington City—Emerson Elementary; 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 Biological Sciences, 614-292-7904, plants.biosci.ohio-state.edu/tours.html.

Grades 6-8



Grades
6-8

SCIENCE

Bluffview 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 sixth-grade 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: Only a limited number of districts/schools/youth can be served. Franklin County: Worthington City—Bluffview Elementary.

Ohio State Contact: Circulation Technology Division, OSU Medical Center, 614-292-7261, www.amp.osu.edu/CT.

Breakfast of Science Champions

The Breakfast of Science Champions (BOSC) 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. Campus visits are offered on one day in November and one day in February each year. Students meet faculty and graduate students from the sciences while enjoying a continental breakfast, tour labs, participate in demonstrations, and learn about science careers. After visiting campus, students and their teachers prepare an electronic presentation (essay, poem, song, movie, PowerPoint, drawing, etc. about their Breakfast of Science Champions visit. They share these presentations with students at other schools through the Breakfast of Science Champions Media Manager site. In 2008-2009, over 500 students and their teachers participated. Students complete a college aspiration survey, based on the benchmark set by the P-12 Project. This survey is intended to capture information about how the BOSC visits expand student awareness of careers and college going. Schools pay transportation of their students to campus sites.

Participating Schools: Available to all districts/schools/youth in Ohio. 2008-09: Cuyahoga County: Cleveland Municipal, Maple Heights City, Solon City. Delaware County: Big Walnut Local. Franklin County: Columbus City, Dublin City, Grandview Heights City, Hilliard City, New Albany-Plain Local, South-Western City, Upper Arlington City, Westerville City, Worthington City. Hamilton County: Cincinnati area Young Scholars students. Licking County: Heath City. Lucas County; Toledo area Young Scholars students. Montgomery County: Dayton area Young Scholars students. Portage County: Ravenna City. Scioto County: Washington-Nile Local.

Ohio State Contact: Office of Academic Affairs, 614-688-5557, ascommunitypartnerships.osu.edu/ScienceChampions.cfm. Internal Partners: Byrd Polar Research Center, Office of Research; College of Engineering; Colleges of the Arts and Sciences; College of Veterinary Medicine; Orton Geological Museum, School of Earth Sciences, Center for Emergent Materials, College of Mathematical and Physical Sciences; N.E.U.R.O., Center for Molecular Neurobiology, College of Medicine; Department of Human Nutrition, College of Education and Human Ecology; Biological Sciences Greenhouse, College of Biological Sciences; OSU Airport, College of Engineering; Ohio Agricultural Research and Development Center, Nationwide and Ohio Farm Bureau 4-H Center, College of Food, Agricultural, and Environmental Sciences; Ohio State Mansfield. External Partner: Middle School Gifted and Talented Program, Columbus City Schools.

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 2008-09, the CEM collaborated with Breakfast of Science Champions, Blueprint:College, Baseball Day, Women in Engineering, Society of Women in Physics, and COSI to serve 5,300 K-12 students, including 2,725 girls, 2,258 students from minority groups underrepresented in STEM careers, and 462 students with disabilities.

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

Ohio State Contact: Materials Science and Engineering, College of Engineering, 614-292-9548, cem.osu.edu/education/index.cfm. Internal Partners: College of Mathematical and Physical Sciences, Department of Physics, Department of Chemistry, Department of Materials Science; Project GRO, Office of Research and Office of University Outreach and Engagement.



Earth Sciences Lectures for Schools

An Ohio State Lima Earth Sciences professor gives presentations for schools, service organizations, and youth organizations (e.g., 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; Rocks: How They Form and What They Are Used For to all fourth graders at Maplewood Intermediate School; and How We Know What We Know About Dinosaurs to all third graders at Maplewood Intermediate School. He also developed and chaired the Fossils Event for Northwest Regional Science Olympiad held on Ohio State Lima campus.

Participating Schools: Available to districts and schools in Allen, Auglaize, Hancock, Hardin, Paulding, Putnam, and Van Wert counties. 2008-09: 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 Mathematical and Physical Sciences, Ohio State Lima, 419-995-8208, lima.osu.edu/academics/earthSciences/.

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 second annual GRASP Summer Camp, held June 22-26, 2009, accommodated 24 girls. Physical activities included football, ice skating, climbing wall, and archery. These activities corresponded with lectures from physics faculty on the topics of projectile motion, superconductivity, potential and kinetic energies, and fundamentals of flight. Participants were taken on a field trip to the National Air Force Museum in Dayton, Ohio. \$50 fee.

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

Ohio State Contact: Department of Physics, College of Mathematical and Physical 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.

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

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: 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.

Grades 6-8



Grades
6-8

SCIENCE

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.

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

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

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 awareness of 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/resources/aaascec/programs/default.cfm. Internal Partners: College of Humanities, African American and African Studies Community Extension Center; College of Medicine; College of Mathematical and Physical Sciences.

Mentors and Judges for Science Fairs

Project GRO identifies faculty, staff, and students to serve as mentors and judges for area science fairs and other STEM education programs. During the 2008-09 school year, this included the Ohio Academy of Sciences' State Science Day. Participating units included Department of Physics, Department of Materials Science and Engineering, and the Center for Emergent Materials.

Participating Schools: Franklin County: Columbus City, Franklin County districts.

Ohio State Contact: Project GRO, Office of Research & Office of University Outreach and Engagement, 614-688-3041, projectgro@osu.edu, projectgro.osu.edu. Internal Partners: Department of Physics, College of Mathematical and Physical Sciences; Department of Materials Science and Engineering, College of Engineering; and the Center for Emergent Materials. External Partners: Columbus State Community College, Ohio Academy of Science.

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. In February 2009, the theme of the fifth annual event was Voyages of Discovery. The Open House, which drew nearly 1,100 visitors featured special exhibits and hands-on activities for children.

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

Ohio State Contact: Department of Entomology, Museum of Biological Diversity, College of Biological Sciences, www.biosci.ohio-state.edu/~jfreuden/systematics/museum/webfiles/openhouse.htm.

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. 2009 participants: Crawford County: St Joseph Elementary. Delaware County: Buckeye Valley Local—Buckeye Valley Middle, Buckeye Valley High; Columbus Catholic Diocese—St. Mary Elementary; Delaware City—Frank B Willis Intermediate, John C Dempsey Middle, Rutherford B Hayes High; Olentangy Local—Hyatts Middle, Olentangy Shanahan Middle, Orange Middle, Olentangy Liberty High. Knox County: Mount Vernon City—Mount Vernon Middle, Mount Vernon High. Marion County: Ridgedale Local—Ridgedale Jr/Sr High; River Valley Local—Heritage Elementary, River Valley Middle. Union County: Fairbanks Local—Fairbanks Middle; Marysville Exempted Village—Bunsold Middle; North Union Local—North Union Middle; St Paul Lutheran Elementary. Wyandot County: USEVS Exempted Village—Upper Sandusky Middle, Upper Sandusky High.

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



Northwest Ohio 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 7, 2009, the 10th annual regional tournament was attended by students representing 36 schools from 9 counties. 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 Biological Sciences, Ohio State Lima, 419-995-8868, lima.osu.edu/academics/outreach/ScienceOlympiad/index.php. Internal Partners: Chemistry, Physics, Geology, and Education Departments on the Lima campus.

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. In 2008-09, 760 students from 4 schools participated. The theme was Ethanol: No Fossils in This Fuel. This year's visits will focus on biofuels like ethanol (E85) and the role this renewable, domestically produced fuel as a clean alternative to petroleum-based fuels. This lesson is targeted to students in grades 6-8. Students learn about today's technologies that contribute to a cleaner environment and gain hands-on experience with ethanol by conducting an experiment using yeast to break down sugar and form ethanol. Ideas are also presented to teachers for follow-up activities for students to continue their learning process after the visit.

Participating Schools: Available to any Ohio school district whose finances limit them to no more than one off-site field trip per academic year. 2008-09: Licking County: North Fork Local—Utica Jr High. Portage County: Southeast Local—Southeast High. Wayne County: Central Christian—Central Christian Middle; Triway Local—Triway Jr High.

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/.

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, the Ohio Agricultural Research and Development Center'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. The office conducted off-site Bug Zoo events for more than 500 students in 2008, including a number of library summer reading programs (their theme was Catch the Reading Bug). The office also provided customized tours for 15 youth groups, organizations, and schools, totaling 601 students from across Ohio and Pennsylvania. 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/.

Grades 6-8



Grades
6-8

SCIENCE

Ohio Science Olympiad

The Ohio Science Olympiad state tournament is held each spring on the Columbus campus of The Ohio State University. Middle and high school teams 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. The intent of the program is to improve the quality of science education and increase student interest by recognizing outstanding achievement and encouraging inquiry. In April 2009, 266 teams representing more than 4,000 Ohio students and teachers participated in the state tournament. 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. \$173 per team early registration; \$188 per team for late registration

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

Ohio State Contact: Office of Continuing Education, 614-688-3819, askced2@ced.osu.edu, www.ced.osu.edu/scioly. External Partner: Science Education Council of Ohio.

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, www.marion.ohio-state.edu/prairie/.

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: Colleges of the Arts and Sciences, 614-688-5557, ascommunitypartnerships.osu.edu/MiddleSchools.cfm. Internal Partner: Office of Undergraduate Admissions and First Year Experience.

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 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 of Agriculture Workshops

In its seventh year, OARDC's Science of Agriculture workshop on the Wooster campus shattered all previous attendance records by bringing in 1,076 students from kindergarten to seniors in high school, more than a 200% increase over 2007 attendance. They came from 71 schools in 17 counties to learn about the science involved in agriculture. Another 400 students were on the waiting list. In 2 days, 17 sessions were offered for students in grades K-5 and 16 sessions for students in grades 6-12, each session offered up to seven times each day. From the explosive Whiz-Bang Science Show to participating in real-world experiments with OARDC researchers and extracting DNA from onions, students not only learned hands-on science, but they had fun, too. Participating departments included plant pathology; horticulture and crop science; food, agricultural and biological engineering; food animal health, computing and statistical services; research operations; Secrest Arboretum; and the director's office as well as Wayne County Recycling, Wayne Soil and Water Conservation District, and Town & Country Co-op.

Participating Schools: Available to all districts/schools/youth in Ohio on a first-come, first-served basis. 2008-09: Ashland County: Ashland City—Taft Elementary; Cleveland Catholic Diocese—St. Edward Elementary. Lorain County: Lorain County JVS. Lucas County: Ohio Virtual Academy High. Medina County: Cloverleaf Local—Cloverleaf High. Stark County: RG Drage Career Technical Center. Wayne County: Chippewa Local—Hazel Harvey Elementary; Green Local—Marshallville Elementary, Smithville Elementary; North Central Local—Norway High; Southeast Local—Fredericksburg Elementary, Waynedale High; Triway Local—Wooster Twp Elementary; Wayne County Schools Career Center; Wooster City—Lincoln Way Elementary; Parkview Elementary. 28 home school groups.

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 Mathematical and Physical Sciences, Ohio State Marion, 740-725-6250.

Starlab Planetarium

The Starlab Planetarium is a 30-minute trip into a different world. The students can explore the solar system, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. Starlab provides a unique experience for the Ohio State Lima 10-county area.

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

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Dominion East Ohio.

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. In May 2009, more than 1,000 7th-12th-grade science, technology, engineering, and mathematics (STEM) students representing 290 schools from 67 counties across Ohio exhibited their science research projects at the 61st annual event. Held at Ohio State's French Field House and St. John Arena, the event presented students with scholarships and awards valued at more than \$2.5 million.

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

Ohio State Contact: Office of Continuing Education, 614-292-8571, www.statescienceday.osu.edu/. External Partner: Ohio Academy of Science.

Grades 6-8



6-8
Grades



Stone Lab field trip
(photo courtesy
of Ohio Sea Grant
College Program/
Stone Lab)

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

Women in Science Day

The Women in Science Day, sponsored by the Association for Women in Science of Central Ohio, brings talented girls in the sixth to ninth grades to The Ohio State University. The program features hands-on workshops, tours, and demonstrations led by faculty from Ohio State and other universities with expertise in science, mathematics, engineering, and medicine. Workshop topics range from aquatic biology to wildlife ecology. Women in Science Day is held in March in honor of Women's History Month. The 25th Women in Science Day was held on March 19, 2009. Over 300 girls and teachers in gifted and talented programs from 19 school districts from around Ohio attended. Byrd Polar Research Center (BPRC) served as a host site for groups of middle school students who were interested in changes that have been observed in the world's glaciers. BPRC hosted two hands-on sessions where students had an opportunity to observe and predict the movement of a substance called Flubber that behaves very much like glacial ice as it flows. Approximately 25 young women participated in this event, accompanied by their teachers.

Participating Schools: Available to any districts/schools/youth. 2008-09: Ashland County: Ashland City—Ashland Middle. Butler County: Veritas Christian Homeschool Group. Clermont County: Batavia Local—Batavia Middle. Cuyahoga County: Independence Local—Independence Middle. Franklin County: Worthington City—Kilbourne Middle. Knox County: Danville Local—Danville Middle. Lake County: Madison Local—Madison Middle. Logan County: Benjamin Logan Local—Benjamin Logan Middle. Lorain County: Amherst Exempted Village—Amherst Jr High. Marion County: Pleasant Local—Pleasant Middle. Medina County: Cloverleaf Local—Cloverleaf Middle. Montgomery County: Valley View Local—Valley View Middle; Vandalia-Butler City—Morton Middle, Smith Middle. Perry County: Crooksville Exempted Village—Crooksville Middle. Portage County: Kent City—Stanton Middle. Van Wert County: Van Wert City—Van Wert Middle. Wayne County: Dalton Local—Dalton Intermediate. Wood County: Lake Local—Lake Middle.

Ohio State Contact: School of Allied Medical Professions, College of Medicine, 614-268-1488, womeninscienceday@gmail.com, awisco.osu.edu/. Internal Partners: Colleges of Mathematical and Physical Sciences, Optometry, Pharmacy, Engineering; Byrd Polar Research Center, Office of Research.

Young Women's Empowerment Conference

This annual conference brought together young women from Columbus City Schools to encourage their engagement in math and science. The College of Biological Sciences offered a hands-on workshop.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: College of Biological Sciences, 614-292-8772. Internal Partners: College of Mathematical and Physical Sciences, College of Engineering.

Young Women's Summer Institute

Young Women's Summer Institute is a weeklong program sponsored by the Ohio Supercomputer Center for middle school girls in Ohio. 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, 614-292-7099, ywscontact@osc.edu, www.osc.edu/education/ywsi/index.shtml.

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, DNA and fingerprint analysis, bone and tooth analysis, crime-scene processing, and evidence collection and documentation. As in real life, students meet with crime-scene experts, including university police, homicide investigators, 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 but any students can participate.

Participating Schools: Available to all districts/schools/youth in Ohio. Franklin County: Columbus School for Girls.

Ohio State Contact: Department of Anthropology, College of Social and Behavioral Sciences, 614-361-0753. Internal Partners: OSU Police Department; Entomology Extension, Waterman Dairy Farm, College of Food, Agricultural, and Environmental Sciences.

Forensics in the Classroom

Forensics in the Classroom is a 1-2 week bridge program for middle and high school students to learn basic forensics skills in an interactive environment. 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. 2008-09: Franklin County: Columbus City—Linden-McKinley STEM Academy.

Ohio State Contact: Department of Anthropology, College of Social and Behavioral Sciences, 614-743-0378, [past.client.alexforddesign.com/](mailto:alexforddesign.com/). External Partners: PAST Foundation, Battelle Foundation.

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.

Participating Schools: Schools in Lorain County.

Ohio State Contact: OSU Extension, Lorain County, www.ohio4h.org/youth/teen_pg/index.html.

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



6-8
Grades

SOCIAL SCIENCES/SOCIAL STUDIES

Grades 6-8



6-8
Grades

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 will begin with visits to Indianola Informal K-8 in February and March.

Participating Schools: Franklin County: Columbus City—Monroe Middle, Mifflin Alternative. Schools that have an interest but are located distant from Columbus Campus can make use of the workbook either alone or in conjunction with professional planners or planning students in their area.

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

Starlab Planetarium

The Starlab Planetarium is a 30-minute trip into a different world. The students can explore the solar system, understand plate tectonics, and investigate the human cell. They also engage in learning about Greek mythology, Native American mythology, and African American mythology. Starlab provides a unique experience for the Ohio State Lima 10-county area.

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

Ohio State Contact: Outreach and Engagement, Ohio State Lima, 419-995-8125, lima.osu.edu/academics/Outreach/. External Partner: Dominion East Ohio.

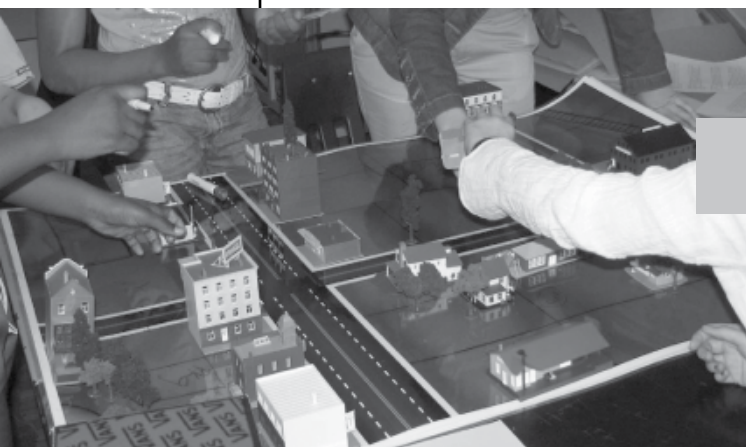
Street Law Program

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.

Planners' Day in Schools (photo courtesy of Maria Manta Conroy, City & Regional Planning)



Grades 6-8

STEM (SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS)

4-H Young Buckeye STEM Scholars

4-H Young Buckeye STEM (Science, Technology, Engineering, Mathematics) Scholars is an after-school, project-based program that incorporates scientific inquiry, technological design, teamwork, communications, and leadership development. The program is open to all interested fifth- and sixth-grade students in selected school districts. As members of an after-school 4-H club, students select and complete one science- or technology-related project, present it in after-school sessions and public events, and develop an inquiry-based science project to enter at a local science day by seventh grade. 4-H Young Buckeye STEM Scholars is a partnership of the Ohio Academy of Science, OSU Extension 4-H, local schools, public libraries, and TECHColumbus supported by the Ohio General Assembly through a \$700,000 grant to the Academy from the Ohio Department of Education.

Participating Schools: Delaware County: Big Walnut Local, Buckeye Valley Local. Franklin County: Worthington City—Brookside Elementary, Colonial Hills Elementary, Slate Hill Elementary. Marion County: River Valley Local; Pickaway County: Teays Valley. Union County: North Union Local. Wyandot County—USEVS Exempted Village.

Ohio State Contact: 4-H Youth Development, OSU Extension, 614-247-8150, www.ybstems.org/. Internal Partners: Project GRO, Office of Research and Office of University Outreach and Engagement; College of Education and Human Ecology; OSU Extension. External Partners: TechColumbus, Ashland University Professional Development Services.

Enhanced Pre-College Initiative

The Enhanced Pre-College Initiative (EPCI), a full-year academic enrichment experience with a summer camp, offers hands-on activities, conference participation, bridge building, robotics, and Jeopardy-like math competitions to introduce students to careers in science, technology, engineering, and mathematics (STEM). It functions as after-school STEM clubs supported by a network of partners that include The Ohio State University, Columbus City Schools, community and industry leaders, engineering organizations, and parents. These partners support the clubs by identifying and providing resources. Under STEM Columbus, EPCI is expanding to include all middle and high schools in the Columbus City Schools.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-6491.

Mentors and Judges for Science Fairs

Project GRO identifies faculty, staff, and students to serve as mentors and judges for area science fairs and other STEM education programs. During the 2008-09 school year, this included the Ohio Academy of Sciences' State Science Day. Participating units included Department of Physics, Department of Materials Science and Engineering, and the Center for Emergent Materials.

Participating Schools: Franklin County: Columbus City, Franklin County districts.

Ohio State Contact: Project GRO, Office of Research & Office of University Outreach and Engagement, 614-688-3041, projectgro@osu.edu, projectgro.osu.edu. Internal Partners: Department of Physics, College of Mathematical and Physical Sciences; Department of Materials Science and Engineering, College of Engineering; and the Center for Emergent Materials. External Partners: Columbus State Community College, Ohio Academy of Science.

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. In May 2009, more than 1,000 7th-12th-grade science, technology, engineering, and mathematics (STEM) students representing 290 schools from 67 counties across Ohio exhibited their science research projects at the 61st annual event. Held at Ohio State's French Field House and St. John Arena, the event presented students with scholarships and awards valued at more than \$2.5 million.

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

Ohio State Contact: Office of Continuing Education, 614-292-8571, www.statescienceday.osu.edu/. External Partner: Ohio Academy of Science.



6-8
Grades



4-H Young Buckeye STEM Scholars (photo: Chris Andersen, Project GRO)

STEM

Grades 6-8

SUMMER PROGRAMS



Grades
6-8

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 (available to students entering grades 7-9).

Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-7329, wie.eng.ohio-state.edu/prospective/outreach.htm.

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 the Arts, 614-292-1053, womenandtech@accad.ohio-state.edu, accad.osu.edu/womenandtech/home.html.

Enhanced Pre-College Initiative

The Enhanced Pre-College Initiative (EPCI), a full-year academic enrichment experience with a summer camp, offers hands-on activities, conference participation, bridge building, robotics, and Jeopardy-like math competitions to introduce students to careers in science, technology, engineering, and mathematics (STEM). It functions as after-school STEM clubs supported by a network of partners that include The Ohio State University, Columbus City Schools, community and industry leaders, engineering organizations, and parents. These partners support the clubs by identifying and providing resources. Under STEM Columbus, EPCI is expanding to include all middle and high schools in the Columbus City Schools.

Participating Schools: Franklin County: Columbus City.

Ohio State Contact: Minority Engineering Program, College of Engineering, 614-292-6491.

Future Engineers' Summer Camp

Sponsored by The Scotts Miracle-Gro Company, the Women in Engineering Program's 2009 Future Engineers' Summer Camp was held for a total of 30 female students who were going into the eighth grade. Designed to excite and encourage participants' interest in engineering, the 2009 camp introduced these students to a variety of engineering areas through a series of hands-on activities and interactive demonstrations held on the university's Columbus campus. In addition, students visited area businesses and corporations, including Scotts Miracle-Gro and Nestle PTC Marysville, to find out more about what engineers do in the real world. On the Wednesday evening of the camp, participants' parents/guardians were invited to attend a dinner on the Ohio State campus, where they had the opportunity to talk with members of the camp staff and female engineering professionals from Scotts Miracle-Gro. There is an application fee.

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

Ohio State Contact: Women in Engineering, College of Engineering, 614-247-7936, wieoutreach@osu.edu, wie.osu.edu/content/fesc. External Partner: Scotts Miracle-Gro Company.



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 second annual GRASP Summer Camp, held June 22-26, 2009, accommodated 24 girls. Physical activities included football, ice skating, climbing wall, and archery. These activities corresponded with lectures from physics faculty on the topics of projectile motion, superconductivity, potential and kinetic energies, and fundamentals of flight. Participants were taken on a field trip to the National Air Force Museum in Dayton, Ohio. \$50 fee

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

Ohio State Contact: Department of Physics, College of Mathematical and Physical 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 2009). The camp and teacher development are operated by the K-12 Chinese Flagship and Department of East Asian Languages and Literatures.

Participating Schools: Only a limited number of districts/schools/youth can be served. 2008-09 participants: Cuyahoga County: Beachwood City—Beachwood High; Shaker Heights City—Shaker Heights High; Polaris Career Center. Franklin County: Columbus Catholic Diocese; Gahanna-Jefferson City—Gahanna Lincoln High; Metro School. Greene County: Beaver Creek City—Beaver Creek High.

Ohio State Contact: Foreign Language Center, College of Humanities, 614-292-0460 or 614-292-0577, k12chineseflagship.osu.edu/. Internal 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: Schools in Allen County first, then open to adjacent counties.

Ohio State Contact: College of Education and Human Ecology, Ohio State Lima, 419-995-8412, www.lima.osu.edu/kidscollege/default.htm

Grades 6-8



6-8
Grades

SUMMER PROGRAMS

Learning in Fitness & Education (LiFE) Sports Program

LiFE (Learning in Fitness & Education) 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). 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. Beginning this year, follow-up booster sessions will be provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites. 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 a 2009 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.ohiostatebuckeyes.com/camps. Internal 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: Ohio Department of Education's Office of Safety, Health, and Nutrition; Boys and Girls Club of Columbus.

Mathersize Summer Mathematics Camp

Mathersize is a weeklong day camp intended for 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.

Rising Scholars Summer Camp

Held on the Ohio State Mansfield campus, Rising Scholars Summer Camp gives local middle school students a college-like experience working with faculty members. It is designed to help young students realize that college is a viable option for their future. Students take part in hands-on math and chemistry classes and also choose electives. Twenty students from Mansfield City Schools, Mansfield Christian, and Mansfield St. Peter's participated in the third year of the summer camp.

Participating Schools: Richland County: Mansfield City—Brinkerhoff Intermediate, Hedges Elementary, Sherman Elementary, Springmill Elementary, Malabar Middle; Toledo Catholic Diocese—St. Mary Elementary, St. Peter Elementary; Mansfield Christian Elementary; Mansfield Community School; Temple-Christian School.

Ohio State Contact: College of Education and Human Ecology, Ohio State Mansfield, 419-755-4360.

Grades 6-8

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. 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.

Young Women's Summer Institute

Young Women's Summer Institute is a weeklong program sponsored by the Ohio Supercomputer Center for middle school girls in Ohio. 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, 614-292-7099, ywsicontact@osc.edu, www.osc.edu/education/ywsi/index.shtml.

TECHNOLOGY

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/.



6-8
Grades

*Young Women's
Summer
Institute (photo
courtesy of Ohio
Supercomputer
Center)*



Grades 6-8



6-8

Grades

TECHNOLOGY

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 the Arts, 614-292-1053, womenandtech@accad.ohio-state.edu, accad.osu.edu/womenandtech/home.html.

Megaconference, Jr.

Megaconference Jr. is a virtual conference designed to enable students in elementary and secondary schools around the world to collaborate on activities focused on both academic and cultural issues using the Internet2 Commons Videoconferencing Service. The event is made possible by a volunteer team of technologists, students, teachers, and staff. Begun in 2004, the event was created by the Emerging Technologies Unit of the Office of the Chief Information Officer. In February 2009, over 150 schools from 11 different countries participated in the sixth annual event. During the day, selected students and teachers presented a variety of topics. Participants were able to interact with the presenters via audio and video.

Participating Schools: Available to any districts/schools/youth. 2009 participants: Butler County: Ross Local—Ross High. Columbiana County: Salem City—Buckeye Elementary. Cuyahoga County: Euclid City—Memorial Park Elementary, Thomas Jefferson Magnet; Hathaway Brown School. Franklin County: Worthington City—Worthington Kilbourne High; Ohio State School for the Deaf. Lawrence County: Fairland Local—Fairland High. Ross County: Chillicothe City—Chillicothe Middle. Scioto County: Minford Local—Minford Middle; Wheelersburg Local—Wheelersburg High.

Ohio State Contact: Learning Technologies, Digital Union, Office of the Chief Information Officer, 614-247-7604, www.megaconferencejr.org. External Partners: MAGPI (Mid-Atlantic Gigapop in Philadelphia for Internet2), Internet2, Chester County Intermediate Unit, St. Clair County Regional Educational Service Agency, North Dakota State University.

Youth Aviation Adventure

This half-day program located at The Ohio State University Airport introduces youth 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, www.osuairport.org/Education/Youth/.

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 Community Clubs

Ohio 4-H involves more than 81,000 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 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. In partnership with the Lawrence County MRDD Open Door School, 73 students (ages 6-21) at the school for mentally and/or physically disabled youth were members of an in-school 4-H club.

Participating Schools: Huron County: Christie Lane MR/DD School. Lawrence County: Lawrence County MR/DD Open Door School.

Ohio State Contact: OSU Extension, Huron County, huron.osu.edu; Lawrence County, lawrence.osu.edu.

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 OSU 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 75 adult volunteers and 300 youth throughout Ohio are actively engaged in this specialized 4-H program.

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/.

Grades 6-8



6-8

Grades

YOUTH DEVELOPMENT

4-H Program at Wright Patterson Air Force Base

Ohio 4-H Youth Development and Wright-Patterson Air Force Base partnered to involve over 300 youth in 4-H programming, including afterschool 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, international foods, drama, rocketry and aerospace, puzzles and creative thinking, geography, citizenship, athletics, and dance.

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

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

4-H Youth Outdoors

Youth Outdoors (YO) worked cooperatively with staff and volunteers from 37 urban locations including City of Cleveland Recreation Centers to provide 509 youth programs to 3,822 individual youth. YO strives to meet the developmental needs of urban youth living in the city of Cleveland through involvement in outdoor adventure and nature exploration activities. Longer-term impacts identified by teens include developing outdoor skills and appreciation of the natural world, increasing their ability to communicate thoughts and feelings, and fulfilling responsibilities to others. 122 adult volunteers assist in supporting YO. The program is a collaboration among Cleveland Metroparks, Ohio 4-H, the City of Cleveland Division of Recreation, and other youth-serving organizations.

Participating Schools: Cuyahoga County: Cleveland Municipal.

Ohio State Contact: Cuyahoga County, OSU Extension, 216-206-1010. External Partners: Cleveland Metroparks, City of Cleveland Division of Recreation.

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 development 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, adventurecentral.org.

Children, Youth, and Families At-Risk (CYFAR)

The goal of the CYFAR project is to cultivate comprehensive community-based Extension programs that empower at-risk families and youth. The two program demonstration sites are Columbus and Dayton. Over 250 youth are served each year at Adventure Central in Dayton with an educational focus on science, nature, workforce, and cultural literacy. The CYFAR program at Adventure Central tries to increase parents' involvement in their children's learning process. Family involvement activities developed in response to evaluation data include Family Fun Nights, Family Reading/Literacy Nights, educational events, and field trips. The CYFAR prevention specialist makes regular school liaison contacts. Intake and annual parent surveys are used to collect information about how the program benefits participants. The CYFAR project goal in the University District in Columbus is to provide at-risk youth structured and supervised 4-H after-school activities that emphasize improving academic performance and promote healthy lifestyle decisions and behaviors. Activities for youth have included 4-H clubs at elementary schools, Godman Guild computer center, Girls in Technology Club, family events, and teen leadership training and workforce development.

Participating Schools: Schools in Franklin and Montgomery counties.

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

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 that guided junior high students through the development of a plan of action that they could, in turn, 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. A total of 104 junior high students representing seven school districts attended the 5-hour training and learned about leadership, practiced teamwork skills, and shared many points of school pride. Each group of students were coached through a series of planning stages that led to a detailed plan of action.

Participating Schools: Schools in Putnam County.

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



Girls Circle

Girls Circle is a research-based program that is essentially a structured support group for girls aged 9-18. Participants in the program meet weekly for 8-12 weeks for guided discussion, creative activities, and personal reflection. University Honors and Scholars students in a year-long immersion project on women's issues were trained to become Girls Circle facilitators and lead circles in local schools.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: W.C. Cupe Community.

Ohio State Contact: University Honors and Scholars, Office of Enrollment Services and Undergraduate Education, 614-292-1794. Internal Partners: Economic Access Initiative, Women's Place, Office of Academic Affairs.

Health Rocks

A grant was received to implement the National 4-H Council's Health

Rocks curriculum program in Meigs County after-school programs. Health Rocks is a teen mentor-led program for youth ages 8-12 focused on making positive decisions about drugs, alcohol, and tobacco. Nine Meigs teen leaders taught 45 after-school youth about good decision making, how to deal with stress, peer pressure, and much more. In Gallia County 17 teens received training on this program and conducted an 8-week series in the fall of 2008 with the Gallia County Local schools. They had over 110 students participate weekly. The Gallipolis City Schools received a series of six lessons in the spring of 2009 with over 60 participants attending weekly.

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

Ohio State Contact: OSU Extension, Meigs County, meigs.osu.edu; Gallia County, gallia.osu.edu.

Learning in Fitness & Education (LiFE) Sports Program

LiFE (Learning in Fitness & Education) 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). 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. Beginning this year, follow-up booster sessions will be provided to youth six times throughout the academic year at Boys and Girls Club of Columbus sites. 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 a 2009 Excellence in Engagement grant from the Office of University Outreach and Engagement.

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

Ohio State Contact: College of Social Work, 614-292-6934, www.ohiostatebuckeyes.com/camps. Internal 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: Ohio Department of Education's Office of Safety, Health, and Nutrition; Boys and Girls Club of Columbus.



6-8
Grades

Y
OUTH DEVELOPMENT

Grades 6-8



6-8

Grades

YOUTH DEVELOPMENT

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 each of the 88 Ohio counties. In 2008, 332,260 youth were involved in 14,605 different clubs and groups: 27% participated in organized clubs, 24.5% participated in school enrichment units, and 40% participated in special interest units; 46,581 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: Student Life, 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. With an additional grant from the Women's Fund of Central Ohio, ROX was able to extend the program to 15 schools for the 2008-2009 academic year.

Participating Schools: Only a limited number of districts/schools/youth can be served. Franklin County: Columbus City—East Columbus Elementary, Weinland Park Elementary, Arts IMPACT Middle, Indianola Middle, Woodward Park Middle, Independence High; Gahanna-Jefferson City—Gahanna-Lincoln High; Hamilton Local—Hamilton Middle; Upper Arlington City—Tremont Elementary; Whitehall City—Rosemore Middle; Columbus Arts & Technology Academy, Columbus Preparatory Academy, Metro School, Bonds Beyond Bars Program, Girl Scouts Seal of Ohio, YWCA Bright Futures.

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: Schools in Harrison and Jefferson counties.

Ohio State Contact: OSU Extension, Harrison County, harrison.osu.edu; Jefferson County, jefferson.osu.edu.

Youth Educational Shoplifting (YES)

During 2008, 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: OSU Extension, Hocking County, hocking.osu.edu.

Grades 6-8

Youth in Governance 4-H Clubs

Twenty new 4-H Youth in Governance Clubs, inclusive of over 450 youth ages 8-18, have been developed to provide 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 week-long learning experience in Washington, DC.

Participating Schools: Schools in Cuyahoga County.

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



6-8
Grades

Y
OUTH DEVELOPMENT



*4-H project judging
(photo: Jodi Miller,
courtesy of College
of Food, Agricultural,
and Environmental
Sciences)*