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Bowling Green State University

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BGSU study asks: Do good motor skills promote fitness?

A number of factors determine the level of people's physical activity across their lifetimes, researchers agree. These may include how competent they feel in performing physical activities, their weight, their environment and their activity history. But another, perhaps more important, component that has not been adequately studied is their actual motor skill set, say BGSU kinesiologists Drs. David Stodden and Stephen Langendorfer, who are working along with Dr. Mary Ann Roberton, professor emeritus, all of the School of Human Movement, Sport and Leisure Studies.

"We believe there's an underlying relationship between motor skill competence, fitness and physical activity," said Stodden. "We are trying to understand how all these factors are related using a more holistic theoretical model, and then we may be able to intervene to help people be more physically fit and active."

As the nation experiences an alarming increase in the number of people who are dangerously overweight, with all the attendant health problems, "the emphasis has been on physical activity and fitness," Stodden said. "But we think people also need a degree of skillfulness that allows them to participate." Children's obesity rates are increasing even more than adults', he added, and even to play, "you need to be coordinated."

The three researchers, along with Shakira Adams, a first-year graduate student in developmental kinesiology from Findlay, and collaborator Dr. Jacqueline Goodway of Ohio State University, another specialist in motor development, are convinced that it is not simply how competent one feels, but how competent one actually is that makes the crucial difference in willingness to participate in physical activity. Their study, "A Developmental Perspective on the Role of Motor Skill Competence in Physical Activity: An Emergent Relationship" is one of the first to look at these factors across the lifespan and to attempt to measure motor skills more accurately.

"In early childhood, children begin to learn a group of motor skills known as fundamental motor skills," they write. These include locomotor skills, or moving one's body through space, and include running, skipping, galloping, hopping, sliding and leaping; and object-control skills such as throwing, catching, bouncing, kicking, striking and rolling.

"For adults deciding to participate in any physical activity, it's similar to the New Year's resolution," Langendorfer said. "You tend to get a high degree of attrition over time. We know from research that it takes about 16 weeks for people to develop an exercise habit. People often don't persist in continuing to exercise because they haven't reached the point where their body's physiology can meet the demands of the activity—and this is probably especially true if one is not particularly skillful in movement. Most of us seek out the kinds of activity we choose because we feel comfortable and competent at performing them.

"The more skilled you are at an activity, the more energy efficient and effective you are and the easier and more pleasurable it is to do. There's also the psychological boost of knowing you're doing it well," he added.

An increasing correlation
The research group predicts that the link between well-developed, efficient motor skills and continued physical activity—and in turn physical fitness—will strengthen over the lifespan. They have hypothesized a "positive spiral of engagement," in which actual motor competence is reflected in individuals' positive perceptions of their motor competence, leading to more participation in physical activity, which will lessen their risk of obesity and increase their likelihood of maintaining a healthy weight. They also predict the potential for the opposite effect, a negative spiral of disengagement when children have not acquired adequate levels of skillfulness.
To test their hypothesis, they are conducting a series of assessments to gather empirical data. So far, they have completed hundreds of evaluations of people of various age groups using simple measures of skill in long jumping, throwing and kicking. These all require a certain amount of power, coordination and skill, Stodden said.

"We don't expect a strong relationship in younger elementary schoolchildren," Stodden said. "They equate effort with success, and as parents we always praise them for whatever they do. But when they reach the age of about 7-9, they are objective enough to see when others are more skillful, and they may begin to withdraw from activity if they understand they are not as skilled as their peers."

Pilot data on 253 children ages 5-14 seem to bear out the researchers' predictions. As reported in a paper accepted for publication by Quest, a theoretical journal for kinesiologists and others in the field of physical fitness and activity, the children's scores did not significantly predict physical fitness for 5- to 8-year-olds, but throwing and jumping did predict significant fitness variance in those ages 9-14.

"We're hoping our work and our theoretical model will inspire debate, and that other researchers will continue to test the model," Langendorfer said.

A new approach
This developmental approach is novel, the researchers say, and draws heavily upon Roberton's groundbreaking developmental sequence research. Though there have been numerous previous studies of people's activity levels, their self-perceptions, and even of their motor skills, these have not been done from a developmental perspective, according to the BGSU group. Measuring a child's proficiency at throwing against an expert's (an approach known as the "error model") perhaps does not yield the most revealing picture, they note.

Measuring these factors in varying age groups has already yielded some important results, they report in another paper accepted for publication. Data suggest up to 79 percent of health-related physical fitness in 18-25-year-old adults can be predicted by how well individuals jump, throw and kick.

While women have been shown to be slightly less fit and have less advanced levels of motor skills across the lifespan, the relationship between their skills and their fitness is the same as men's, the researchers have found so far.

And to the question of the "natural athlete," Stodden and Langendorfer both agree the research tends to refute that idea as a myth. "Some people may have more genetic potential, but they still must practice to develop their skills," Stodden said.

Currently, the group is seeking more people ages 35-55 for their study. "We're looking at how fit you are now and how much skill you have," Stodden said. In exchange for being assessed, participants will receive a free fitness and motor skill assessment. Those interested in participating in the study may contact Shakira Adams at sradams_bg@yahoo.com to schedule an appointment.

The work has been supported by a $30,000, three-year grant from the National Association for Sport and Physical Education as well as a research incentive grant from Sponsored Programs and Research and another from the College of Education and Human Development. The team is also in the running for funding from the National Institutes of Health.

"If this relationship is truly there, our next step will be to intervene," Stodden said, "to see whether we can promote higher levels of activity and fitness by improving motor skills. This certainly could make the case for strong, daily physical education programs that promote skillfulness and fitness in all our schools."
Governor outlines plan to make education a state priority

Education, from kindergarten to college, figured prominently in Gov. Ted Strickland's State of the State address Feb. 6. Boosting the educational attainment of all Ohio citizens is the key to the state's future, the governor said.

"We know that higher education is the major economic driver of our economy," Strickland said, announcing a plan to expand on former Gov. James Rhodes' initiative to put a community college in the vicinity of every Ohioan. Noting that Ohio has a higher-education infrastructure that rivals any in the country, Strickland said the next step is to insure access and affordability for all citizens.

"Today I'm announcing that the 10-year plan for the University System of Ohio will guarantee that a high-quality associate and bachelor's degree in the academic fields necessary to land a good job will be available on a campus within 30 miles of every Ohioan," he said. The governor cited the partnership between Miami University and Sinclair State Community College as an example of a collaboration aimed at this goal.

Increasing financial aid funds from public and private sources will be one way to help make education affordable to all, said Strickland, who is attempting to preserve funding for higher education in the next state budget.

(For the full text of the speech, visit http://governor.ohio.gov/Default.aspx?tabid=835.)

'Seniors to Sophomores'

Strickland also called for increasing the number of college graduates in the state, in part by changing the mindset of high school graduation as an end in itself, he said. To accomplish this, the governor announced an expansion of the Post Secondary Enrollment Options (PSEO) program in which qualifying high school students may take college courses.

Introducing his new "Seniors to Sophomores" initiative, he said he has instructed Ohio Board of Regents Chancellor Eric Fingerhut to "give every 12th-grader who meets the academic requirements a choice of spending their senior year in their home high school, or spending it on a University System of Ohio campus. Tuition for the year will be free."

The state will begin enrolling students in the program for the upcoming school year, Strickland said. "Participating seniors will then graduate from high school ready to start their sophomore year in college. In fact, students will receive their high school diploma and one full year of college credits at the same time. The credits will transfer in full to public institutions, as well as many private colleges," he said.

His proposed House Bill 424, which creates the expanded "dual enrollment" program, calls for reimbursement to the institution—including tuition, textbooks, materials and other fees directly related to the courses taken—from the student's school district, community or STEM school, or state set-aside for nonpublic school students.

To qualify for reimbursement, all PSEO courses must be taught by an individual with at least a master's degree in the content area.

Dr. Shirley Baugher, provost and vice president for academic affairs, said the governor's "Seniors to Sophomores" proposal is "an exciting program to provide a higher education to a broader set of Ohioans. It is well suited for the best and brightest students, and it's feasible.

"Bowling Green is supportive of low-cost options for students. Right now, we have 114 high school students attending classes on the main campus through the PSEO program, and 125 high school students attending classes through an Ohio Department of Education grant-funded dual enrollment program at BGSU Firelands.

"Still, there are many details to be worked out in the new proposal. Currently, each institution that offers the PSEO program determines its own admissions standards for students. We anticipate that the governor's new program will identify statewide admission standards for
Strengthening K-12 education

Strickland also announced plans to significantly reform K-12 education in the state, both through funding and programming. While recent assessments show Ohio's public education system to be fairly strong among the states, "it has not kept pace with the rest of the world," he said. In the current globally competitive environment, Ohio must draw upon two of the strengths of its system—its ability to foster creativity and innovation—to move forward, he added.

As he did in making the chancellor of higher education a Cabinet position, he announced that he is creating the position of Director of the Department of Education, appointed by him and approved by the Senate. The state superintendent and state board of education will be advisory to that position, he said. The director will have a direct line of responsibility and accountability for K-12 education.

This will "bring about real change and real results," he predicted.

Based on his numerous meetings with parents, teachers, businesses and other constituents since taking office, Strickland said he had arrived at six points for educational reform, including making primary and secondary education more child-centered and using existing testing and assessment for the creation of individualized education programs based on each child's learning styles.

"We must create learning environments that foster and nurture creativity, innovation and global competency," he said.

BGSU up for the challenge

In response to the governor's announcement, President Sidney Ribeau said, "This renewed emphasis on education is in keeping with Bowling Green State University's commitment to serving Ohio's citizens and creating lifelong learners who lead lives of personal fulfillment and contribute to their communities and state.

Strategic Planning Group to take up its charge

As President Sidney Ribeau announced in his recent State of the University address, BGSU will soon begin work on crafting a plan to guide it over the next 10 years. See www.bgsu.edu/offices/mc/monitor/02-04-08/page44933.html

To lead the effort, Ribeau has named a Strategic Planning Group, made up of individuals selected for their "professionalism and ability to take a university-wide perspective," he said. Co-chairing the team are Dr. William Mathis, music performance studies, and Mel Hudson-Nowak, director of internal auditing and advisory services.

The president said the group will likely be meeting weekly, and that a draft document will be completed by April 30.

Team members

College of Arts and Sciences: Drs. Louis Katzner, philosophy; Andrew Layden, physics and astronomy; Wendy Manning, sociology; Paul Moore, biology and Honors Program director, and Michael Ogawa, chemistry chair.
In his charge to this "Change Team," Ribeau said its purpose is to "guide the process of developing a realistic, desirable and achievable plan to shape BGSU's directions and operations over the next 10 years." While this strategic plan will continue to evolve in response to changing conditions, at the time the plan is approved it will encompass the roadmap for the major dimensions along which the University will purposefully move. The plan is not intended to describe all key decisions nor operational detail; it will be up to the operating units of the University to use and interpret the elements of the plan in keeping with their local conditions.

The strategic plan will be implemented in a phased process that will extend over several years, Ribeau said.

While year by year there may be different areas of emphasis or priority, until the plan is replaced it will serve as the touchstone for:

• Evaluating priorities, such as determining which programs and activities will be supported.
• Guiding the allocation of resources.
• Shaping continuous improvement, directing targeted innovation and assessing performance, including the assessment of institutional progress.
• Providing a practical basis for determining and demonstrating accountability.
• Proactively responding to BGSU's "customers" by anticipating needs and preferences and using these to shape the student, faculty and staff experiences to exceed expectations.
• Recommending organizational alignments.

Planning will be done in awareness of the newly forming University System of Ohio and of other external demands, but it is targeted to BGSU, the president added. The goal is sharpened focus on accomplishing the University's longstanding mission, particularly student mastery of the University Learning Outcomes.

The campus will be kept informed to enable campus community members to track the planning process and make meaningful contributions.

In addition to the Strategic Planning Group, which will do most of the review of detailed planning materials, analysis, synthesis and drafting of the plan, a second group, or "Leadership Team," will also contribute. It consists of the president, trustees and Cabinet, plus any other individuals who may be designated by the president. The Leadership Team will have the responsibility to implement the strategic plan through the normal organizational structure, providing input on feasibility, transitions, operations and accountability.

The Change Team and the Leadership Team will be in continuous dialogue throughout the planning process, Ribeau said.
Community partnerships launched at grant announcement

Partnerships for Community Action (PCA) and the Center for Innovative and Transformative Education will announce the winners of nearly $52,000 in grants during the 11th annual grant launch on Friday (Feb. 15).

The event will be held from 11:30 a.m. to 1:30 p.m. in the Lenhart Grand Ballroom of the Bowen-Thompson Student Union. The program will include the announcement of the 2008 grant recipients and an informational booth on Creative Commons alternative copyright licenses. Last year's grant winners will be present to share their accomplishments.

"The launch is a way to bring a lot of people together from various fields, interests and needs. It opens up the possibility and opportunity for engagement in community action and partnership activity," said Patrick Vrooman, interim assistant director of PCA.

This year's theme is "Experiencing Mutualism," an idea that Provost and Vice President for Academic Affairs Shirley Baugher will capture during the reading of one of her poems, according to Dr. Kathy Farber, PCA director.

Vrooman explained that, in biology, mutualism is a symbiotic relationship in which both organisms benefit. Mutualism is the backbone for the partnership support and dissemination grants, designed to create mutually beneficial partnerships between University and community members.

The 13 projects that will be funded this year are:

- Access BG, co-directed by Kate Collins, Chapman Learning Community; Richard Hoffman, Partners in Context and Community; Jan Kilbride of Toledo Public Schools, and Pat Lewinski of Libbey Humanities Academy, awarded $5,000.

- Adelante-BGSU Latino Community Media Project, co-directed by Dr. Reuben Viramontez Anguiano, family and consumer sciences, and Sonia Troche of Adelante, awarded $5,000.

- Arts Enterprise for New Orleans, co-directed by Nathaniel Zeisler, music performance studies; Claudia Barker of New Orleans Outreach, and Christopher Genteel and Pamela Jenkins of the University of Michigan, awarded $5,000.

- Community Action for Promoting Conservation Awareness in Elementary Education, co-directed by Dr. Gabriela Bidart-Bouzat, biological sciences; Barbara Guthrie of Birmingham Elementary School (Toledo), and Mitchell Magdich and Dr. Peter Tolson of the Toledo Zoo, awarded $4,000.

- Encouraging Young Adult Leadership, co-directed by Pamela J. Colbert-Brumbaugh of United Way of Erie County and Dr. Andrew Kurtz of BGSU Firelands, awarded $2,000.

- Expect Respect Council: "There's No Excuse for Abuse," co-directed by Dr. Emily M. Hinnov of BGSU Firelands and Michele McCormick of the Safe Harbor Domestic Violence Shelter, awarded $4,820.

- Interfaith Dialogue as a Vehicle for Understanding and Peace, co-directed by Dr. Thomas Klein, professor emeritus of English; Dr. Bob Midden, director of the Chapman Learning Community; Srin Srinivasaan of the MultiFaith Council, and Joe Zielinski of the MultiFaith Council and Owens Community College, awarded $4,520.

- Journalism PACT—Partners in Active Citizenship Today, co-directed by Drs. Catherine Cassara-Jemai, Smeeta Mishra and Kelly Taylor, journalism; and Joseph P. Boyle Jr., Tony Brashear, Barbara Johnson and Jeffery Hiendland of Rogers High School (Toledo), awarded $5,000.

- Latino Relationships: Sexuality, Health and Quality of Life, co-directed by Drs. Sandra Faulkner and Radhika Gajjala, interpersonal communication, and Sonia Troche of Adelante,
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awarded $2,000.

- Sculpture in the Garden, co-directed by Greg Mueller, art, and Michelle T. Grigore, city of Bowling Green, awarded $2,000.

- Singing to the Tune of Early Literacy, co-directed by Dr. Nancy Sugden, music education; Kathleen Newman, Office of Service-Learning; Kathy East of the Wood County District Public Library; Jessica Fausnaugh, Wood County Corps/Library; Diane Roberts, WSOS Head Start, and Anita Serda of the Perrysburg Heights Community Association, awarded $4,625.

- Wood County Gift Exchange, co-directed by Judy Kiser, social work; Dr. Laura Landry-Meyer, family and consumer sciences, and Susan McKinney, Wood County Gift Exchange, awarded $3,000.

- Youth Leadership Advocates: Building Adult Capacity to Support Engaged Youth, co-directed by Dr. Jane Rosser, director of service-learning at BGSU, and Kathy Schnapp and Cathy Sperling of the Community Partnership, awarded $5,000.

Share perspectives on teaching, learning at March fair

The Center for Teaching, Learning and Technology (CTLT) will host the second annual Teaching and Learning Fair on March 14.

The BGSU community will gather in the Lenhart Grand Ballroom of the Bowen-Thompson Student Union to discuss student success through best teaching and learning practices, focusing on BGSU's Learning Outcomes. Faculty and graduate assistants are welcome to be participants or presenters at the fair. Presenters must register no later than next Monday (Feb. 18). Visit www.bgsu.edu/offices/ctlt/to sign up.

Dr. Diane Halpern, professor of psychology at Claremont McKenna College in California and past president of the American Psychological Association, will deliver the 10:45 a.m. keynote address, "Applying the Science of Learning in the Classroom and Beyond." Halpern's talk will center on empirically validated principles about the way people learn and guidelines for applying the principles in college classrooms in ways that enhance long-term retention and transfer.

A former mentor of President Sidney Ribeau, Halpern will examine best practices for durable learning across time, place and domains of knowledge and review the principles of learning that were generated by the Association for Psychological Science Task Force on Life-Long Learning at Home and at Work. She will specifically provide examples of new technologies that are being used to enhance learning.

According to Halpern, "our students are more diverse in terms of their backgrounds and reasons for attending college and in what they need to know to succeed as educated citizens in a technological society. We need new pedagogies that address their needs and prepare them to become lifelong learners. The stakes are high: our ability to compete and cooperate in the global economy depends on our ability to help students become better learners and thinkers."

Useful topics presented

Presentations will be held from 9-10:30 a.m. and again from 1-2:30 p.m., centered on the BGSU Learning Outcomes, critical and constructive thinking, skillful communication, and engagement.

Fair-goers will interact with presenters who are displaying and discussing:

- Course planning and activities that promote critical and constructive thinking.
- Advising activities that extend teaching and learning.
- Learner activities that promote communication and presentation using multiple media, such
as logical, mathematical, visual, spatial or musical.
• Learner activities that occur outside of the classroom and encourage students to engage others in action while participating and leading.
• Living-learning residential communities with creative environments that enhance academic success and provide richly rewarding extracurricular activities.
• Course design and experiences that afford learners opportunities to participate in an organized service activity.

In addition to the presentations in the ballroom, breakout discussions are set for 9:30-10:30 a.m., 1:30-2:30 p.m., and 3-4 p.m. in rooms 314, 315 and 316. Three topics will be offered in these repeating sessions: BGSU Teachers on Teaching, Future Learning Settings and BGSU Learners on Learning.

The CTLT advisory board is hosting BGSU Teachers on Teaching, interactive sessions with invited BGSU faculty members who have been recognized for their excellence in teaching and their innovative methods in the classroom. Teachers will discuss their learner-centered teaching approaches, with time for questions and answers.

The Office of the CIO will lead discussions on Future Learning Settings, soliciting faculty and learner input about learning strategies and technologies. BGSU community members who currently offer instructional support for classroom and online teaching and learning will facilitate discussion about future teaching with technologies.

“It’s what works for me,” or BGSU Learners on Learning, are open discussions with graduate and undergraduate students about their BGSU learning experiences. Led by Undergraduate Student Government and Graduate Student Senate, the interactive sessions offer an opportunity for students and faculty to discuss perspectives on learner-centered activities.

IN BRIEF

Memorial service for students slated
A memorial service for BGSU graduate students Sweety Mazumdar and Apsana Giri, who were killed in a Jan. 2 auto accident in Indiana, has been scheduled for 2 p.m. Saturday (Feb. 16) in 202A Bowen-Thompson Student Union (Lenhart Grand Ballroom).

Documentaries of filmmaker Ruth Beckermann explored in talk
Dr. Christina Guenther, German, Russian and East Asian languages, will discuss “Cartographies of Identity: Memory and History in Ruth Beckermann’s Documentary Films from 1980-2007” at 2:30 p.m. Wednesday (Feb. 13) in 201A Bowen-Thompson Student Union.

Austrian Jewish filmmaker and writer Ruth Beckermann first posed questions concerning children of the second generation after the Holocaust in her 1987 film “The Paper Bridge.” As a cartographer of postwar Jewish and Austrian identities, Beckermann characterizes her documentaries since then as journeys or “filmic maps.” Guenther will discuss the modes by which Beckermann represents spaces, city- and landscapes, and relates them to identity in her documentaries. Of particular interest to Guenther is how Beckermann “performs ethnography” as she theorizes the relationship between memory, history and documentary.

Guenther’s teaching and research focus on German and Austrian culture, Jewish identity and the Holocaust. She has published essays in Comparative Literature Studies and Unterrichtspraxis, and her work has also appeared in anthologies, including Visions and Visionaries in Contemporary Austrian Literature and Film. Currently a Fellow at the campus Institute for the Study of Culture and Society (ICS), she is at work on a book-length project exploring the life and work of Austrian Jewish writers Doron Rabinovici, Robert Schindel, Anna Mitgutsch and Beckermann.
Her talk is part of the Artists and Scholars in Residence Series, sponsored by ICS and showcasing the research of faculty affiliated with the institute. Support for this work has come from the Office of the Vice Provost for Research and the Office of the Dean of Arts and Sciences. For more information, call 2-0585.

**CALENDAR**

**Monday, Feb. 11**

2008 Spring Expo Job and Internship Fair, 5-8 p.m., Perry Field House.

Concert, by guest pianist Jerry Wong, Kent State University, 8 p.m., Bryan Recital Hall, Moore Musical Arts Center.

**Tuesday, Feb. 12**

Tuesday Nights Film Series, “Family Viewing” (1987), Canada, directed by Atom Egoyan, 7:30 p.m., Gish Film Theater, Hanna Hall.

Movie, “Saw IV,” 9:30 p.m., Bowen-Thompson Student Union Theater.

**Wednesday, Feb. 13**

BGSU Firelands Diversity Celebration Event, “Nontraditional Families and the Law,” by Rob Salem, a clinical instructor at the University of Toledo College of Law, 10:30 a.m., Cedar Point Center Auditorium.

Brown Bag Luncheon, "Turning the Noose that Binds into a Rope to Climb: How Contemporary Female Rhetors (teachers of rhetoric) Overcome the Double-Bind," presented by Dr. Angela Zimmer, general studies writing, noon-1 p.m., Women’s Center, 107 Hanna Hall.

BGSU Firelands Diversity Celebration Guest Artist, photographer Linda Panetta will discuss photographic techniques and styles at 1 p.m. and photojournalism and human rights advocacy at 5:30 p.m. Both talks will be held in the Firelands College Library and are in conjunction with her photographic display, “The Streets Weep and the Stones Bleed.” See Continuing Events below.

**Thursday, Feb. 14**

BGSU Firelands Diversity Celebration Guest Artist, photographer Linda Panetta will discuss photojournalism and human rights advocacy, 11 a.m., Firelands College Library. In conjunction with her photographic display, “The Streets Weep and the Stones Bleed.” See Continuing Events below.

Black History Month Event, "Hip-Hop Music as Black Popular Culture," presented by Dr. Angela Nelson, chair of the popular culture department, 11:30 a.m., 201 Union. Sponsored by the Center for Multicultural and Academic Initiatives.

Service-Learning Community Partnership Series, discussing opportunities for BGSU to take part in the Community Partnership’s CAPA City conference, an interactive, five-day, youth-leadership conference, especially intended for faculty who focus on youth development and substance abuse prevention in their courses, presented by Kathy Schnapp, project manager, 1-2 p.m., Center for Teaching, Learning and Technology, 201 University Hall.

BG@100 Open Forum, 1:30-2:30 p.m., 315 Union.

International Film Series, “Pacchigi (We Shall Overcome Someday)” (2004), Japan, directed by Izutsu Kazuyuki, 7:30 p.m., Gish Film Theater, Hanna Hall.

**Friday, Feb. 15**

Grant Launch, “Experiencing Mutualism,” announcing the 2007-08 Partnership Support and Dissemination Grant recipients, 11:30 a.m.-1:30 p.m., Lenhart Grand Ballroom, Union. Sponsored by Partnerships for Community Action and the Center for Innovative and Transformative Education.

Women’s Research Network Seminar, “Understanding Oneself Before Conducting Research,” presented by Leilani Kupo, leadership and policy studies, 1:30-3 p.m., Women’s Center, 107 Hanna Hall. Sponsored by the Women’s Studies Program and the Women’s Center.

Black History Month Quiz Bowl, 7-9 p.m., 201A Union. Sponsored by the Black Stu-
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Saturday, Feb. 16
Memorial Service, for BGSU graduate students Sweety Mazumdar and Apsana Giri, 2 p.m., 202A Union (Lenhart Grand Ballroom). Men's Basketball vs. Akron, 2 p.m., Anderson Arena. Gymnastics vs. Central Michigan University, alumni night, 7 p.m., Eppler Center Gymnasium. Women's Basketball vs. Eastern Michigan, 7 p.m., Anderson Arena.

Sunday, Feb. 17
Master Class, led by pianist Marilyn Nonken, New York University, 6:30-9:30 p.m., Bryan Recital Hall, Moore Musical Arts Center. Movie, "Saw IV," 9:30 p.m., Union Theater.

Continuing Events
Feb. 12-27
Art Exhibition, the annual Undergraduate Art and Design Exhibition, Dorothy Uber Bryan and Willard Wankelman galleries, Fine Arts Center. Gallery hours are 10 a.m.-4 p.m. Tuesday-Saturday and 1-4 p.m. Sundays. The galleries will also be open on Monday, Feb. 18, for Presidents' Day.

Through Feb. 12
Art Exhibition, closing day of show by BGSU's Student Art Glass Association, Union Gallery. Gallery hours are 8 a.m. to 9 p.m. through Tuesday.

Through Feb. 13
Art Exhibition, paintings by Rebecca Kaler, Little Gallery, BGSU Firelands. Gallery hours are 9 a.m.-5 p.m. Monday-Friday.

Feb. 13-20
Photography Exhibit, "The Streets Weep and the Stones Bleed," by photographer Linda Panetta, whose work focuses on cultural, environmental and human rights with a special emphasis on conflict zones, BGSU Firelands College Library.

Feb. 14-17
Theatre Production, "Our Town," by Thornton Wilder. Performances are at 7 p.m.

Thursday-Saturday (Feb. 14-16) and at 2 p.m. Saturday and Sunday (Feb. 16 and 17), Eva Marie Saint Theatre, University Hall. Tickets are $12 for adults and $6 for children under 12. For tickets, call the box office at 2-2719. Bowling Green residents who present an ID may obtain one free adult and unlimited free children's tickets with the purchase of an adult ticket, in commemoration of the city's 175th anniversary.

Feb. 16-17
2nd Annual Bowling Green Chamber Music Competition, preliminary round begins at 1 p.m. Saturday (Feb. 16); final round begins at 3 p.m. Sunday (Feb. 17). Both events in Bryan Recital Hall, Moore Musical Arts Center.

Feb. 17-March 8
Art Exhibition, "Circumstance: The Intersection Between Choice and Chance," student art, Union Art Galleries. Hours are 8 a.m.-9 p.m. Monday-Saturday and 10 a.m.-9 p.m. Sundays.

Through Feb. 29
Planetarium Show, "Blown Away! The Wild World of Weather," showings at 8 p.m. Tuesdays and Fridays, 7:30 p.m. Sundays and 2 p.m. Saturday (Feb. 16). $1 donation suggested. This show will be given again March 11-April 5, including some Saturdays.