

Professors discover galaxy 300 trillion miles away



Pat Durrell



John Feldmeier

When Pat Durrell and his 13-person team of astronomers from around the world were granted time to use the Hubble Space Telescope to conduct research, his hope was to discover stars that had been ripped from faraway galaxies.

Durrell, an assistant professor of astronomy at YSU, found the stars, and much, much more.

"We were looking for these stars, but when we got

the images, we said, 'Hey, we've got some other stuff here,'" he said.

That "stuff" was the discovery of a new, never-before-detected dwarf galaxy and four unknown star clusters.

"It was great," Durrell said. "It was almost like a three-for-one deal. We got lucky."

Durrell, and two other researchers on the team, presented the findings at the American Astronomical Society's meeting in Washington D.C. in January.

The team also includes John Feldmeier, YSU assistant professor of astronomy.

"This image lets us look at the center of a galaxy cluster, which is filled with galaxy interactions," Feldmeier said. "It's like looking at the center of a 50-car pileup while it's happening."

Durrell said it took the team three years to get approval from NASA to use

the Hubble Space Telescope for the research. The telescope, launched in 1990, orbits 375 miles above the Earth and provides views of the universe that cannot be made using ground-based telescopes or other satellites.

"Hubble time is very precious," he said, noting that only one of every eight applications for time on the telescope is approved.

The team, headed by Robin Ciardullo, professor of astronomy at Penn State University, was granted 37 orbits of observation (more than 25 hours of data)

last spring to study intracluster stars in the Virgo cluster of galaxies about 55 million light years from Earth, or more than 300 trillion miles.

The team found thousands of such intracluster stars – stars that do not belong to any single galaxy and instead drift through the intergalactic space of a galaxy cluster.

But it also found a previously unknown dwarf galaxy and four new star clusters, which are densely-knitted groups of stars.

Many times, dwarf galaxies appear

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To view images of the Virgo cluster, visit eUpdate at <http://eupdate.ysu.edu>

YSU gets less funding, charges lowest tuition

YSU receives less state funding and charges the lowest tuition among comparable universities in Ohio, according to a report from the Ohio Board of Regents.

The 2005 Performance Report for Ohio's Colleges and Universities also shows that YSU has an above average student retention rate and its full-time equivalent enrollment has grown at a faster-than-average rate.

"This year's report shows that YSU, despite continued cuts in state funding, is the most cost-efficient university in the state and performs on a level that in many cases surpasses other top universities in Ohio," YSU President David C. Sweet said.

Bege Bowers, YSU associate provost for academic programs and planning, agreed.

"The report helps universities to identify some of their strengths, as well as some areas they need to improve," Bowers said.

The 236-page report, now in its sixth year, is developed by the Ohio Board of Regents and includes comprehensive data about Ohio's 62 public universities and colleges. Gov. Bob Taft requested the annual report in 1999 to give lawmakers, higher education officials, students, parents and the general public detailed information about how Ohio's public universities and colleges are performing.

The report is available online at <http://www.regents.state.oh.us/perfrpt/2005index.html>.

The report shows that YSU's undergraduate tuition of \$6,237 in the 2005-06 academic year is the lowest among the largest public universities in the state and well below the \$7,941 average for main campuses statewide.

Also, the report shows that YSU spent \$9,345 per student (graduate and undergraduate combined) in 2003-04, the lowest among the state's 11 largest public

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Gorby garners honors with 'no limits' approach

BY KELLY NOYES

Brian Gorby may have to move to a larger office if his streak of success continues as head coach of YSU's track and field teams.

Filling the shelves and lining the walls of his office in the basement of Beeghly Center are dozens of trophies, awards and other honors he has earned during a coaching career that has put YSU among the elite track and field programs in the region.

"We preach 'no limits,'" Gorby said about his coaching style. "I guess I'm the eternal optimist. I like to set high goals."

And in 13 years at the helm of YSU's men's and women's track and field and cross country programs, Gorby is usually successful in reaching those goals.

The 38-year-old Boardman native and one-time YSU track standout himself has earned conference Coach of the Year honors 13 times, first in the Mid-Continent Conference and now the Horizon League.

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Track and field coach Brian Gorby displays his championship rings.

State subsidy comparisons...

YSU received \$4,389 per full-time equivalent student (graduate and undergraduate) in fiscal year 2004, the lowest among the state's 11 largest public universities.

Institution	State Subsidy/FTE
Cincinnati	\$7,327
Ohio State	6,759
Wright State	5,701
Ohio University	5,605
Cleveland State	5,561
University of Akron	5,087
Miami University	4,982
Bowling Green	4,902
University of Toledo	4,850
Kent State	4,790
YSU	4,389
Average, Main Campuses	\$5,888

Source: Performance Report for Ohio's Colleges and Universities 2005

Lariccias provide \$100K for sculpture of Howard Jones

YSU has launched a national search for an artist to create a bronze figure honoring Howard W. Jones, YSU's first president.

The sculpture of Jones, president of Youngstown College and Youngstown University from 1931 to 1966, is being commissioned by long-time YSU supporters Tony and Mary Lariccias, with daughters Natalie and Dana.

The Lariccias provided \$100,000 for the project, the second such gift the family made to YSU for a sculpture. The first was for a sculpture of long-time YSU coach Dominic Rosselli, which was installed in May 2005 on the south patio of Beeghly Center.

"This project celebrates the history of Youngstown State and symbolizes the virtue of education," said Greg Moring, YSU associate professor of art.

Artist applications for the sculpture are due June 1. Three finalists will be selected by July 1, and the artist will be chosen by September. The sculpture will be installed in 2008 to coincide with YSU's centennial celebration.

Jones earned a bachelor's of arts degree from Hiram College in 1920. In 1930, he received a master of arts degree from Western Reserve University. In 1931, he came to Youngstown College from Hiram College, where he served as as-

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Byline

'We must act to raise the bar'



Gov. Bob Taft

By Gov. Bob Taft

(Editor's note: Gov. Bob Taft, in his eighth and final State of the State address on Jan. 25, called for high school graduates to meet more rigorous core curriculum requirements in order to be admitted to four-year public universities. Here is an excerpt from the speech.)

The world has raised the bar, and we must act to raise the bar for high school graduation. It's time to require all high school students to take a more rigorous core curriculum. We've got to get our kids on the right course...

We've done the studies. We know that Ohio students who take a rigorous core curriculum are less likely to require remedial course work and are more likely to succeed on the job, or in college. The Partnership for Continued Learning, which we created last year, stands ready to assist us in meeting the challenge.

My friends, let's work together to enact an education reform bill this session that will set the right course for students, for workers, and for the economic future of Ohio. Here's the plan:

First, require all (high school) students to take rigorous course work that will prepare them for the workforce or college – this means four years of math, including Algebra II; three years of science, including biology, chemistry and physics; four years of English; three years of social studies; and at least two years of a foreign language. To give families and schools time to prepare, the core curriculum should apply to students in the graduating class of 2011.

Second, make completing a rigorous core curriculum a condition of admission to Ohio's state-funded four-year colleges and universities.

Third, move all remedial education to Ohio's two-year campuses, where costs are lower.

Fourth, require all (high school) students to take a college and work-ready assessment in their junior year to help them know if they're on the right course to be prepared for life after high school.

Finally, add a measure to the School Report Card to indicate how well high schools are preparing students for college and work.

We must also help students earn a college degree more rapidly at lower cost. We should give every high school student in good standing the opportunity to earn at least one semester of college credit while still in high school.

And I applaud members of the Higher Education Funding Study Council for proposing to tie state funding to course and degree completion. Let's reward institutions for the number of graduates they produce, not just the number of students who simply come to class....

The reforms I'm proposing amount to a major change – and change is difficult; but we fail to act at our own peril. ■

Campus News Roundup

Penguins basketball on Internet

Penguin fans can follow the YSU men's and women's basketball teams via the Internet through an arrangement with the Horizon League.

The Horizon League and CSTV Networks have teamed up to provide free live video Web casts of all conference men's and women's basketball games not otherwise cleared on television outlets.

The Web cast games can be accessed via the Horizon

League's Web site at www.horizonleague.org.

Remaining YSU games slated to be Web cast include men's games on Feb. 9, 11, 15, 22 and 25, and women's games on Feb. 11, 13, 16, 18 and 23.

CSTV, part of the CBS Corp., is one of the nation's leading digital sport media companies, presenting sports events via television, broadband, satellite radio and wireless. ■

FA Week...

Linda Frank of YSU's Office of Financial Aid and Scholarships reviews materials with students Suzie Durochia, right, and Julie Fisher in the lobby of Williamson Hall on Jan. 24. The information table was part of Financial Aid Awareness Week, aimed at gearing up students for the Feb. 15 priority filing deadline of the Free Application for Federal Student Aid.



Bruce Beeghly

Beeghly re-elected secretary

Bruce R. Beeghly of Struthers, former chair of the YSU Board of Trustees, has been re-elected secretary of the Ohio Board of Regents, the coordinating body for higher education in the state.

Beeghly, president of Altronic Inc.,

was appointed to OBOR in 2002. He previously served nine years on the YSU Board of Trustees and was chair from 1998 to 2000. He also is a past trustee of the YSU Foundation and served as a member of the Ohio Board of Regents' Higher Education Funding Commission. Beeghly received a bachelor's degree in engineering from the California Institute of Technology. ■

Athletics preps for certification

The steering committee leading the effort for YSU's NCAA Division I athletics certification is soliciting input from the YSU community.

The committee, chaired by President David C. Sweet and Cynthia Anderson, vice president for student affairs, is responsible for writing a self-study of the university's athletics department. Three subcommittees – led by Jane Kestner, associate dean of the College of Arts and Sciences, Ron Chordas, assistant provost, and Tom Maraffa, special assistant to the president – have met to review all aspects and conduct of YSU's athletics department.

The steering committee will prepare a final draft of the study for submission to the NCAA by May 15.

A team of reviewers will visit campus this fall. That team will report to the NCAA Division I Committee on Athletics Certification, which will determine YSU's certification status and announce the decision publicly in February 2007.

Minutes of all subcommittee and steering committee meetings, as well as information about the self-study process, can be found at <http://www.ysu.edu/sports/compliance/certification/process.htm>.

All Division I universities and colleges are required to undergo NCAA certification every 10 years. YSU successfully completed its first certification self-study in 1998. ■

Youngstown STATE UNIVERSITY

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His honor...

Youngstown Mayor Jay Williams looks to make a pass during the Game of Hope celebrity basketball game Jan. 21 in Beeghly Center. Phi Kappa Tau fraternity raised nearly \$5,000 for Paul Newman's "Hole in the Wall Gang" charity and the Rich Center for Autism at YSU. Among the celebrity players and coaches were Williams; Robb Schmidt, news anchor for WKBN-TV; Herb Washington, owner of the Youngstown SteelHounds; State Sen. Marc Dann, State Rep. John Bocchieri and Jim Graham, president of the United Auto Workers Local 1112.

Faculty/Staff

Awards and Honors

Gunapala Edirisooriya, professor, Educational Administration, Research, and Foundations, was recently appointed to editorial board of the journal, *Educational Policy Analysis Archive*, by the journal's executive board.

Grants

Philip Brady, professor, English, was awarded a \$5,000 Ohio Arts Council Individual Artist Fellowship for 2006. This is his fifth OAC Individual Artist Fellowship.

Presentations

Paul Carr, assistant professor, Educational Administration, Research and Foundations, presented "Talking About Democracy and Education: Perspectives, Experiences and Perceptions" at the Fourth Annual International Civic Education Conference in Orlando in January.

Allen D. Hunter, professor, Chemistry, co-presented "Towards Organometallic NanoWires and NanoStars" at the 229th American Chemical Society National Meeting in San Diego in March 2005.

Shawn Kim, professor and chair, and **Hazel Pierson**, instructor, both of Mechanical Engineering, presented "Computational Fluid Dynamic Analysis of Gear and Piston Pumps" at the Fourth National Fluid Power Association Educator/Industry Summit in Pittsburgh in October 2005. The summit is a gathering place for the top executives of fluid power industries and researchers from leading research universities to exchange ideas related to fluid power technology.

Alina Lazar, assistant professor, Computer Science and Information Systems and **Bradley Shellito**, assistant professor, Geography, presented "Comparing Machine Learning Classification Schemes – A GIS Approach" at the 4th International Conference of Machine

Learning Applications, in Los Angeles in December.

Gary Salvner, professor and chair, English, presented "The ALAN Foundation: Support for Your Young Adult Literature Research" at the Adolescent Literature Assembly Workshop of the National Council of Teachers of English Convention in Pittsburgh in November. He also presented "The Ohio Graduation Test in Writing: An Update" at the Ohio WINS Fall Writing Conference at YSU in December.

Professional Activities

Vic Fleischer, head of archives and special collections, Maag Library, was elected to the Board of the Ohio Museums Association and to the Council of the Society of Ohio Archivists.

Mustansir Mir, special assistant to provost for international initiatives, chaired a panel at the Qur'an Conference at the School of Oriental and African Studies, University of London, London, England in November.

Kin P. Moy, assistant professor, School of Technology, is serving as the chief delegate for the United States Delegation to the International Organization for Standardization (ISO) Automotive EMC Test Standards development group.

Publications

Cynthia E. Anderson, vice president for student affairs and professor and **Jane S. Reid**, professor, both of Marketing, co-authored the article "Anticipated Response to Zonal Merchandising in the Suburban Regional Shopping Mall: Effects of Consumer Shopping Style" in the *Journal of Business Disciplines*. They also co-authored "Marketing the American Humanics Certificate: The Benefits and Barriers to Completion," along with **Mark F. Toncar**, associate professor of marketing, in *Review of Business Research*. ■

Wean awards grant for student internships

Forty YSU students will be eligible for paid internships at nonprofit organizations in Youngstown and Warren under a \$112,014 grant from The Raymond John Wean Foundation.

The aim of the grant is to increase the number of YSU students working at nonprofit agencies, particularly those that help children in economically disadvantaged communities, and to increase the interest of students in YSU's American Humanics Certificate program

"This grant allows university students to get paid while serving internships at agencies throughout the area, and it provides the agencies a talented pool of students both now and in the future to help in their operations," said Jane Reid, YSU professor of marketing and director of YSU's Center for Nonprofit Leadership.

In 2001, YSU became one of 67 universities and colleges nationwide to offer a certificate in American Humanics, a program aimed at preparing students for leadership careers in nonprofit agencies. YSU's Center for Nonprofit Leadership oversees the certificate program.

Among the requirements for the certificate is completion of a 300-hour internship with a nonprofit organization. Reid said research shows that the internship – usually unpaid – is one of the major barriers

for students not to enter into or complete the certificate program. In addition, Reid notes that nonprofit organizations that could most benefit from YSU interns are the ones that can least afford to pay them.

The grant will allow five to eight students per semester, starting in summer 2006, to be paid \$7 an hour for their internships, essentially eliminating one of the barriers to the program, Reid said.

"We believe this will result in more nonprofit agencies offering internships, more students interested in serving internships and, eventually, more students seeking careers in the nonprofit sector," Reid said.

Funding for the internships would run out by December 2008, at which time Reid said her program would seek additional grant money from other funding agencies.

Reid said the paid internships will be available to students in the certificate program as well as any other YSU student interested in an internship at a nonprofit organization. The only requirement is that students in the internship program take the one-hour Nonprofit Leadership Seminar class while they are doing their internship ■

For more information on the internship program, contact Jane Reid at 330-941-1870 or jmreid@ysu.edu.

NEOMFA in creative writing: 'A leap of faith' that worked

BY KAREN SCHUBERT

Jennifer Sullivan reads from her poem, "...we are black characters on white paper – like pages of the Gospel. We walk the sunken roads..."

The poem is "Snow in Borinage," one of a series of poems Sullivan has written that quotes passages from Vincent Van Gogh's journals and letters.

A ninth-grade English teacher at Barberton High School, Sullivan is a student in the Northeast Ohio Creative Writing Master of Fine Arts, a collaborative degree between the four public universities in northeast Ohio: Akron, Cleveland, Kent and Youngstown.

Sullivan wrote the poem as part of YSU English Professor Phil Brady's summer poetry writing workshop at YSU.

"I have always been into writing," Sullivan said, adding that she has been interested in seeking an MFA, but no other program would allow her the flexibility to stay in Northeast Ohio and continue working in Barberton.

"I love the atmosphere of being in writing workshops. It isn't necessarily because I want to learn how to be a writer, it's more that I am a writer and I need to be with other writers. The classes are a lot of work, but they're the kind of work I want to do."

The first classes in the new MFA were offered last spring at all four participating campuses, including a class on literary publishing at YSU, a poetry writing workshop at Kent and fiction writing at Akron.

Brady, who is serving as the first director of the MFA, said the program was designed with students like Sullivan in mind – someone with a career or family in the area, who wants to enrich their writing experience.

"It was a leap of faith – if we built it they would come, and they came," he said. "People are writing to us saying, 'We waited so long for this.'"

Holding classes on four campuses has changed the way students and faculty think about the university, Brady said.

"We're beginning to talk about our campus as a 70-mile perimeter," he said. "The driving is already occurring. I'm seeing it – after the YSU poetry readings – people from Akron, Cleveland and Kent come to the receptions. I've had more interaction than I've ever had."

There have been 43 students accepted into the program so far, and the program now has 21 faculty members, including Brady, William Greenway and Steve Reese of YSU, Mary Biddinger of Akron, Mike Geither and Neal Chandler of Cleveland State and Maggie Anderson and Craig Paulenich of Kent State.

One student in Brady's class, Jana Russ, a lecturer in English and history at Akron, said she considered getting a Ph.D., but decided that the NEOMFA would be more beneficial because it offered faculty expertise from the four different universities.

"I can't move from Ohio, but I can move around Ohio in this way," she said.

"The best poems I've ever written have come out of this class," she added.

Evaline Abram-Diroll, YSU employee benefits coordinator, was one of the first YSU students in the program. She received a degree in English from YSU in 1978 and was Penguin Review editor that year. She said she has been writing poetry continuously since high school.

"I've always liked writing, and I thought this would help me," she said. ■



Mrs. King remembered...

Coretta Scott King shakes hands with William Blake, director of student diversity programs, during a visit to the YSU campus in May 1999. King, widow of slain civil rights leader the Rev. Martin Luther King Jr., died Jan. 31 at the age of 78. President Bush hailed her as "a remarkable and courageous woman and a great civil rights leader." King's son, Martin Luther King III, visited YSU in October.

Penguins' all-time leading scorer has number retired

No one will ever again wear the number 33 for the YSU women's basketball team.

The number, worn by the Penguins all-time leading scorer Dorothy Bowers, was retired last month during a ceremony at the halftime of the YSU vs. Wisconsin-Green Bay game in Beeghly Center.

Bowers is the first woman in YSU history to have her number retired.

"This is a fitting tribute to one of the best basketball players in the history of Youngstown State," said Ron Strollo, executive director of intercollegiate athletics. "Dorothy's accomplishments have stood for nearly 20 years."

Bowers, who is currently the director of student support services at Jefferson

Community College, scored 2,324 points during her career at YSU from 1984 to 1988.

In her senior year, Bowers set the university's single-season scoring record with 783 points and was named the Ohio Valley Conference Player of the Year.

She also owns school records for most field goals in a career (977), highest field goal percentage (.544), most points in a single game (49) and most field goals in a game (21).

Bowers earned a bachelor's degree in business education in 1990 and a master's degree in education in 1994, both from YSU. She was inducted into the YSU Athletics Hall of Fame in 1997. ■



Dorothy Bowers and her son, David, hug during a ceremony to retire her number. Bowers is the Penguins' all-time leading scorer. Looking on is former YSU coach Ed DiGregorio.

Gorby

(Continued from page 1)

His teams won eight consecutive Mid-Continent Conference Championships from 1994 to 2001. In 2003, the men's team won the Horizon League Indoor Championship, YSU's first Horizon League crown in any sport. The team has captured five track and field titles in the last three years. Gorby has coached the Penguins to 44 individual championships in the Horizon League.

"I know it sounds cliché, but my favorite thing about coaching is seeing the kids break through barriers, whether it is mental or physical," he said.

"The success of the program is based on hard and smart work in recruiting, training, motivating and inspiring our student athletes to step up for each other. You have to keep academics number one. You can go places with a good degree. Not much happens without an education."

Gorby started his track career as a sophomore at Boardman High School, running cross-country along with his three brothers.

"We made cross-country a family affair," said Gorby. "They nicknamed us 'Team Gorby.' It was a great time for all of us."

After graduating from Boardman in 1985, Gorby attended Eastern Michigan University and Kent State University before enrolling at YSU.

"YSU didn't have a track program until 1987, and that was something I really

needed," he said. "It was a huge part of my life, and still is."

In three years on YSU's track team, Gorby earned three letters. He received a bachelor's degree in education from YSU in 1990 and was named assistant coach of both the cross-country and track and field teams.

In 1992, he competed in the U.S. Olympic trials for the marathon, falling three minutes short of making the team. In 1993, Gorby was promoted to head coach of the YSU cross-country team.

He then earned a master's in physical education in 1994 and was appointed head coach of the track and field team the same year. He also went on to earn a doctorate in educational leadership at YSU in 2003.

With 70 student athletes, track and field and cross country is the second largest athletic program at YSU. Football is the largest. With coaching and recruiting, Gorby estimates he spends 70 to 80 hours a week at work.

"The hours have to be the worst part of my job," said Gorby, who has two children, ages 2 and 4. "With a family at home, it makes it hard."

One thing that makes his job easier is his coaching staff, Matt Folk, Shawn Cobey, Dave Purins, Rick McElhaney and Marcella Bolha.

"Success is a team effort," he said. "My assistant coaches are nothing short of amazing." ■

Jones search

(Continued from page 1)

sistant to the president for three years. In 1943, he was presented an honorary degree of doctor of pedagogy from Westminster College.

During his 35 years at YSU, Jones led the campus from a collection of one or two leased buildings and an enrollment of 472 students to a campus consisting of several colleges with approximately 11,000

students.

Jones also established the Youngstown Education Foundation, now the YSU Foundation. Today, the foundation has holdings of at least \$140 million, the fourth largest foundation among state universities in Ohio.

For more information, visit www.fpa.ysu.edu. ■

Performance report

(Continued from page 1)

universities and more than \$3,000 less than the \$12,360 average for main campuses statewide.

In addition, the report says YSU received \$4,389 in state instructional subsidy per full-time equivalent student (graduate and undergraduate) in 2003-04, the lowest among the state's 11 largest public universities. The average for main campuses statewide was \$5,888.

Part of the reason for YSU's lower subsidy, the university said, is that many other universities in the state have a greater percentage of graduate students, and universities receive more state subsidy for graduate students than undergraduate students.

The report also said that between 2000 and 2004, YSU's per student state instructional subsidy dropped 17 percent,

the largest percentage drop among the largest public universities in the state. Part of the reason for the drop, the university said, is that YSU for many years was on a state funding guarantee. That guarantee is being phased out, so YSU is now progressively receiving less state support per student.

The report also shows:

- YSU's first-to-second year retention rate of 69 percent in 2003-04 exceeded the 68 percent average for all public universities in Ohio. Bowers said retention rates are, in part, a measure of an institution's success in serving and educating first-year students.

- YSU's full-time equivalent enrollment increased 12 percent from 2000 to 2004, above the average 8 percent increase at main campuses statewide. ■

New galaxy

(Continued from page 1)

only as "smudges" or "fuzzy smears" on astronomical photos, but this new dwarf galaxy is extremely clear, Durrell said. "The brightest individual stars of this galaxy are clearly seen," he said.

"It is only with the capabilities of Hubble that we are even able to see the stars in this galaxy, let alone study them in as much detail as we have been able to do," Durrell said.

He said the research group is now writing proposals to NASA for more time on Hubble. Durrell said he wants to use Hubble to study the Coma galaxy cluster, which is more than five times farther away than the Virgo cluster.

But the future of the \$1.5 billion

telescope, which is about the size of a large school bus, is in question. NASA engineers estimate that the batteries that operate Hubble will run out some time in 2008 or 2009.

The last originally planned Space Shuttle mission to service the telescope was cancelled in January 2004 in the wake of the Columbia Shuttle tragedy in February 2003.

"We're hoping that something can be done to keep Hubble up and working for many more years," Durrell said. "We can't do this research without Hubble. We would have to wait for the next generation of space telescopes, and that could be several years away." ■