

N O R T H E A S T T O D A Y

October 13, 1986

Fieldwork is Goldman's Homework

While many professors are sitting down to dinner, Peter Goldman, associate professor of biology, is squatting in a field watching deer.

Goldman spends his summers and some evenings researching the fleeing pattern of white-tailed deer. The deer, he said, jump while running from predators which makes for a slower escape. Goldman wants to know why.

"Such behavioral enigmas are important in defining evolutionary theory," he said.

White-tailed deer are one of many animals Goldman has researched for the past 15 years. He studied salamanders in the Smoky Mountains, chipmunks in the Rockies and bluebirds in Adair County.

"I study a corner of biology that looks trivial from the outside but may turn out to be significant," Goldman said.

Some of Goldman's research findings have been significant. His study of bluebirds revealed that each bird had its own variation of the species' bird song that identified it as an individual—an important ornithological discovery. Goldman says it's also easy to generalize his findings to human adaptation.

"Even culture and learning is adaptive. I'm doing what science does to prove adaptations are beneficial," he said.

Goldman stumbles into most of his research as he did as a child overturning logs and rocks in his front yard; he notices something unusual and watches it for days, months, even years, to try to explain it.

"Scientists have experienced arrested development. They still have that childlike curiosity," he said.

Such curiosity also compels students to take his bird-watching class offered every other spring and sends the local Audubon Society out on late-night owl watches where forests and fields are the classroom.

Although Goldman doesn't like paperwork—he'd rather be watching bluebirds perched, waiting for an ambush—he does enjoy teaching.

Besides the classes he teaches, Goldman is often part of workshops, supported by the University, held in places like the Smoky Mountains. These courses give the instructor a chance to combine research and teaching.

"More and more I see the importance of teaching," he said.



Peter Goldman, associate professor of biology, studies bluebirds during a 1983 research project.

The Lyceum Series presents
The Lyric Opera of Kansas City
in Puccini's

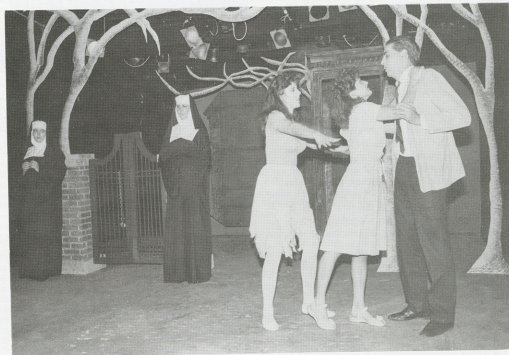
LYRIC OPERA OF KANSAS CITY
TOSCA



*Free tickets are available to students, faculty and staff at the SAB Office, SUB, between 9:30 a.m. and 3:30 p.m., Oct. 15-17 and Oct. 20, or at the door.

*Financial assistance for this performance provided by the Missouri Arts Council

*Recording devices prohibited



Senior Monica Castro assaults freshman Dan Krumm as Junior Ellen Tucker runs to his aid in the University Players' production of Tennessee Williams' "Clothes for a Summer Hotel." Sophomore Lisa Wair and Junior Sharon Vlahovich guard the asylum gate in the play which ran in the Little Theater, Oct. 6-10.

A Vacation of Learning

The Palace of Versailles will be a classroom for NMSU students this summer.

An educational study-tour arranged by Ruth Bradshaw, instructor of foreign language, and Vera Piper, instructor of language and literature, will take NMSU students and others on a two-week venture through London, England, France and Spain.

"We're hoping students who are studying foreign language will take advantage of this, but the trip is open to anyone," Bradshaw said.

The tour was arranged through Cultural Heritage Alliance (CHA), the most popular educational tour company in the world, has taken more than 400,000 people to Europe in the past 18 years.

"This is a well-established program we are going through," Piper said.

"This company maintains 24-hour contact with their travel groups in case any kind of emergency arises. They have headquarters in Europe...and will take care of any type of problem," Bradshaw said.

Students will board a regularly scheduled flight in Kansas City, Mo., and fly to southern Spain. The rest of the tour's traveling will be done by bus and train.

"We will be accompanied by native

guides throughout the whole trip," Bradshaw said.

Highlights include visits to Madrid's Royal Palace and Paris' Eiffel Tower and Notre Dame Cathedral. Visits to countless other historic sights are also scheduled.

"We will travel through southern Spain, which has given Spain much of its folklore...they will really enjoy that," Piper said.

Bradshaw said an educational tour has been discussed before at Northeast, but never accomplished.

"It's something we have talked about doing for a long time...the University is strongly encouraging us," she said.

Students may be able to earn college credit by taking the trip, but that issue has not been formally approved.

"Even if our university does not decide to sanction the credit...we can provide it through other universities," Bradshaw said.

An informational meeting concerning the tour will be held at 7 p.m., Oct. 22, in A/H 304.

"We will have several meetings before the trip, where we will talk about the places we will go...We want to prepare the students, so they will better appreciate the sights," Piper said.



NCAA college football will visit Busch Stadium in St. Louis, Nov. 1, as the NMSU Bulldogs, the defending MIAA champions, host the Southeast Missouri State University Indians, the pre-season favorite for the 1986 conference title.

The Student Activities Board will provide transportation for 20 people. The cost, including a ticket and transportation, will be \$6 or \$3 with an SAB sticker. Sign-up begins two weeks before the game in the SAB office in the Student Union Building.

Activities begin at 11 a.m. with a pre-game reception in Busch Stadium's Hall of Fame Club, sponsored by the NMSU Alumni Association. Kickoff is scheduled for 1:30 p.m.

The NMSU Showboat Gamblers, one of the top 10 marching bands in the country, will entertain at halftime.

Tickets will be available at the gate for \$5/adult and \$3/student. Advance ticket prices are \$4/adult and \$2/student. All seating is general admission.

Advance tickets may be ordered through the NMSU Athletic Office, Pershing Building 213, 785-4236, and the St. Louis Cardinal Baseball Ticket Office at Busch Stadium.



Vanna White (Keela Herr, assistant to the Dean of Instruction) and Pat Sajak (John Applegate, assistant professor of speech pathology) watch as Accounting Club member sophomore Debbie Steiner spins the "Wheel of Fortune." Oct. 6 in the Activities Room of the Student Union Building. The game, sponsored by the Speech Pathology Organization, raised \$215 for NEMO Headstart. Fourteen campus organizations participated. SPO sponsored "Campus Feud" for the past six years, switching to the more popular game show for the first time this year.

Study Abroad

The world can be a classroom for Northeast students. Students can study at universities in Japan, Costa Rica, Spain, France, England and Germany through programs offered by Northeast.

✓ **THE JAPANESE LANGUAGE AND CULTURAL STUDIES PROGRAM**—combines eight weeks of summer study on the Northeast campus under the guidance of a University-professor expert in Asian Studies and a native Japanese educator. Students have three weeks of study, lectures, cultural excursions and homestay in Japan in cooperation with Hosei University in Tokyo.

✓ **THE GERMAN PROGRAM**—offers two summer sessions intensive German language and cultural studies experiences, one in Hamburg and the other in Constance, Germany. Advanced German students can arrange to study in Germany for one year.

✓ **THE FRENCH PROGRAM**—offers opportunities for travel-study abroad in France and Quebec under the guidance of a University professor of French. The programs vary from a two-week travel-study tour of France, England and Spain, to a six-week intensive study program in Quebec. One to six units of credit may be earned through these programs. Opportunities to stay with French-speaking families are also available.

✓ **THE SPANISH PROGRAM**—offers opportunities for travel-study abroad programs in Spain and Costa Rica under the guidance of a University professor of Spanish. The programs vary from a two-week travel-study tour of Spain, England and France, to an eight-week intensive study program in Costa Rica, Central America, with excursions to Panama. While in Costa Rica, students live with Costa Rican families. One to six units of credit may be earned through these programs.

✓ **THE MARSHALL SCHOLARSHIP**—offers two years of study in England. Students must be under 26 years of age and graduate during the 1986-87 year. A total of 30 scholarships are given nationwide. Deadline for entry is Oct. 22, 1986.

✓ **THE RHODES SCHOLARSHIP**—offers three years of study at Oxford University. Students must be under 26 years of age and graduate during the 1986-87 school year. A total of 32 scholarships are given nationwide. Deadline for entry is Oct. 31.

ST. LOUIS POST-DISPATCH

commentary

Are Missouri's Colleges Doing Their Job?

To Find Out, A System For Measuring How Well Students Learn Is Being Established

By John Ashcroft

What do we know about the quality of education our college and university students currently are receiving here in Missouri? Let's take a little pop quiz:

Question 1: This fall more than 175,000 undergraduate students are shaping their futures at the various two-year and four-year colleges and universities across Missouri. When these students get their diplomas, what will that diploma mean in terms of what they know?

Question 2: All too often we read stories about a college or university needing to raise tuition to pay for the costs of providing education. Are the students and parents who have to pay these higher college fees getting what they pay for?

Question 3: This fiscal year it is costing Missouri taxpayers approximately \$41.5 million to operate the state's two-year and four-year colleges and universities. Are Missourians getting a good return on their investment?

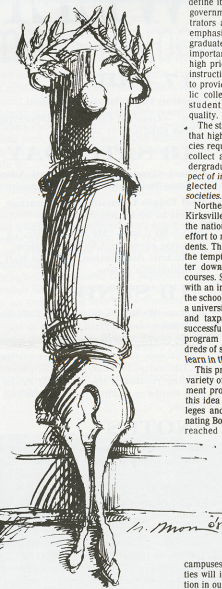
I recently chaired the National Governors Association Task Force on College Quality. The job of my task force was to determine how much undergraduate students are learning in America's colleges and universities. We discovered that it's currently impossible to answer the questions posed in the pop quiz — in Missouri or any other state. Parents, taxpayers and state government officials don't know how much learning is going on in our colleges and universities.

Why don't we know? Because the majority of our nation's colleges and universities do not have a systematic way to measure how much their undergraduate students are learning. Sure, all institutions use the traditional method of classroom grading through instructor-developed tests. That kind of assessment is proper and necessary, but there must be more.

Colleges and universities must be able to assess the acquisition of knowledge and abilities that occurs across individual courses and from year to year. We should be able to show that college has provided a forum for real learning opportunities and that undergraduate students have learned substantially while attending college. A student should score significantly higher on achievement tests as a senior than as a freshman.

After three hearings of our task force (in St. Louis, Kansas City and Washington, D.C.), it was clear that most colleges and universities cannot demonstrate that student learning — in this broader sense — is occurring, and cannot determine with any reasonable certainty the quality of their programs, their curricula and the quality of teaching. Because of what our task force learned, the other seven governors on the panel and I came up with a "revolutionary" idea: Let's make sure that an institution is making a difference in the lives of individual students and that a college degree tells us that the student has learned something worthwhile.

How can we encourage undergraduate assessment programs at our state's



colleges and universities? As with most good programs, it will take cooperation. The governor, the General Assembly, the Coordinating Board for Higher Education, accrediting agencies, the institutional governing boards, teachers, students, parents and taxpayers must work together to improve college quality at each of Missouri's institutions of higher education.

Fortunately, the cooperative process is under way in Missouri. A special subcommittee of presidents of Missouri's public four-year colleges and universities has been studying the issue of college quality and student and program assessment. Their recommendations will provide a springboard that will enable my office, the General Assembly and the Coordinating Board for Higher Education to work together with each institution to help implement assessment programs.

Each institution, however, must tailor its assessment program to meet its own needs. Each school must first clearly

define its education mission. Moreover, government officials, college administrators and faculty members must re-emphasize the importance of undergraduate instruction. This is especially important at schools that also place a high priority on research and graduate instruction. In addition, the state needs to provide incentives to Missouri's public colleges and universities to assess student, program and institutional quality.

The state and the public must demand that higher education accrediting agencies require colleges and universities to collect and use information about undergraduate student outcomes. This aspect of institutional quality has been neglected far too long by accrediting societies.

Northeast Missouri State University at Kirksville is one of the few colleges in the nation that has made a determined effort to measure the progress of its students. The school threw out the window the temptations to lower standards, water down the curricula and offer bad courses. School administrators, working with an involved faculty, began steering the school on a new course. The result is a university that can prove that students and taxpayers are getting quality. So successful is the school's "value added" program that it must turn away hundreds of students who want to study and learn in this exciting environment.

This program is the first of a growing variety of undergraduate college assessment programs in Missouri. To further this idea for the future, our public colleges and universities and the Coordinating Board for Higher Education have reached an agreement with ACT of Iowa City, Iowa, to begin a program to assess the first semester performance of every student in a public higher education institution in Missouri. This information will be fed back to high schools to enable them to prepare their students better for the rigors of college work. Our cooperative demand for quality on the campuses of our colleges and universities will improve every facet of education in our state. It will require elementary and secondary education to demand excellence so we can better prepare the approximately 55 percent of Missouri high school graduates who go on to college.

Moreover, when we assess student performance and progress at the undergraduate level, we have a direct impact on the number of quality students who can further their education in Missouri's graduate and professional schools.

Missouri must be a leader among states in requiring publicly funded colleges and universities to provide taxpayers with accountability. Parents and taxpayers must know their investment dollars are being spent wisely. Students must know they are getting a quality education for their tuition dollar. We must see to it that state government supports our colleges' and universities' efforts to provide this assurance. The result will be graduates of quality institutions who are better prepared to succeed in tomorrow's world.

John Ashcroft is governor of Missouri.

Reprinted with permission from the St. Louis Post-Dispatch, 1986.

13 MONDAY

- 8 a.m.-2 p.m.—**Psi Chi** national honor society in psychology bake sale, A/H corridor. Each item costs 25 cents.
- 5:15 p.m.—**German Language Table meeting**, Ryle Hall cafeteria, private dining room. Hildegard Blaim and Heinz Greschke, graduate assistants from the Federal Republic of Germany, will be present. All interested people are welcome. Those not residing in residence halls may obtain a meal ticket in the cafeteria line for \$3.25.
- 7 p.m.—**Delta Sigma Pi** professional business fraternity meeting, SUB, Alumni Room. Roger Mathews, vice president of avionics engineering for McDonnell Douglas, will speak on "Business Engineering Relations."
- 8-9 p.m.—**Alpha Phi Sigma** national honorary scholastic fraternity make-up pledge test, Violette Hall 290.

14 TUESDAY

- McDonnell Douglas Aerospace Information Service** interviews for computer science majors. Contact the Career Planning and Placement Center, McKinney Center, for information.
- 8:30 a.m.-1:30 p.m.—**College Level Examination Program (CLEP)**, A/H 103
- 6 p.m.—**French Club meeting**, A/H 302. Mario-Dominique Poirier will present a slide show featuring Angers and the surrounding area of France. All students are welcome.
- 7 p.m.—**Women's Volleyball vs. Central College (Iowa)**, Pershing Arena

15 WEDNESDAY

- Intramural Sports Deadline** Water basketball and co-rec open bowling rosters are due. Sign up in Pershing Building 309. Office hours are 12:30-4:30 p.m., Monday through Thursday.
- 8:30 a.m.-1:30 p.m.—**CLEP Test**, A/H 103
- 5:30 p.m.—**Phi Theta Kappa** honor association for transfer students informational meeting, SUB 4. To be eligible for membership, a student must have been a previous member of Phi Theta Kappa or be a transfer student. All interested people are encouraged to attend.
- 7 p.m.—**German Club Meeting**, SUB 6. Wally's House of Beauty will demonstrate current German hairstyles with participating club members. The program will be in English with interpretation in German. Gift certificates for products and services will be given away. All students are welcome.

16 THURSDAY

Mid-Term

- Last day of first-half block courses
- 5:30 p.m.—**French Language Table meeting**, Ryle Hall cafeteria, private dining

THIS WEEK

room. French instructors and assistants will be present to converse in French.

17 FRIDAY

- Vacation Day** (classes dismissed)
- 8 a.m.—**General Education Development Test (GED)**, A/H 103

18 SATURDAY

- 8 a.m.—**Graduate Management Admissions Test**, location to be announced
- Real Estate Licensing Examination**, location to be announced
- 7:30-9:30 p.m.—**"My Whole Life,"** a movie sponsored by the Chinese Student Association, Violette Hall 121. Admission is free.

19 SUNDAY

- 1 p.m.—**Women's Soccer vs. University of Denver**, soccer field
- 8 p.m.—**Hugh Middleton**, assistant professor of piano at Southwest Baptist University, Bolivar, Mo., will present a piano recital of the works of Franz Liszt in Baldwin Auditorium. Admission is free.

NOTES

Deadline for Northeast Notables is 5 p.m., Oct. 22, in the Public Relations Office, A/H 202. All Notables received to date, will be published in the Oct. 27 issue.

Students who are interested in a self-paced section of math lab for the spring semester should contact John Bartling, associate professor of mathematics, as soon as possible at 785-4550 or 785-4557. Students who may benefit from a self-paced format include: (1) those needing only a brief review of the first several chapters; (2) those wishing to accelerate their progress; (3) those preparing to retake the ACT.

Windfall campus literary magazine is accepting submissions of poetry and fiction for its fall issue. Send your entries to: Windfall, SUB, NMSU. Deadline is Nov. 10.

The Campus Bookstore is collecting books written by NMSU faculty members. Faculty authors are asked to contact Sherry Pollard, 785-4211.

First South-Ryle Hall, "Field House," is accepting entries for its "Bomb" show on Nov. 2. All students and faculty are

encouraged to perform. Entry deadline is Wednesday. For information, contact Lori Adkins, 785-5719.

Michael Shaughnessy, a visiting artist, will do an installation, today through Thursday, in the NMSU Art Gallery, Baldwin Hall 218. The piece will remain in the gallery through Oct. 24. Gallery hours are 9:30 a.m.- 5 p.m., Monday through Friday.

The Psaltery, a singing duo, will present a concert of French-Canadian music at 8 p.m., Oct. 21, in Baldwin Auditorium.

A Family Sciences Fair will be held from 3:30-5:30 p.m., Oct. 22, in Violette Hall 172. Students wanting to study child and family development, clothing and interiors, or foods and nutrition are encouraged to attend. Brief presentations on these majors will be given. Faculty and peer counselors will attend, and refreshments will be served.

The Internal Revenue Service, St. Louis District Office, will have openings for Internal Revenue Agents. Accounting majors graduating in December 1988 or May 1987 qualify. Submit applications to:

Special Examining Unit
Internal Revenue Service
One North Wacker Drive
Chicago, IL 60606

Applications can only be submitted from Oct. 20-24. Applications received before or after these dates will be unacceptable. See Jan Fishback, Career Planning and Placements, for applications.

Student Organizations wishing to have announcements read at football games should take the announcements to the Dean of Students Office, A/H 204, by noon on the Friday preceding the game.

The 10th Annual Autumn Historic Folk Festival will be held Nov. 1 and 2 in Hannibal, Mo. This festival is a traditional harvest celebration which annually attracts approximately 35,000 people.

Sal Costa, instructor of psychology, will present "Hypnosis and Stress Management," 7:30 p.m., Oct. 22, in the Ryle Hall main lounge.

A Required Meeting for all people desiring student-teaching placements during the fall 1987 and spring 1988 semesters will be held at 3:30 p.m., Oct. 21, in Baldwin Auditorium. Following a brief session, students will move to divisional meetings where supervisors will provide specific guidelines for enrolling.