



OAKLAND UNIVERSITY

News

104 North Foundation Hall
Rochester, MI 48309-4401

A publication for faculty and staff

November 1, 1991



A Face Only a Mother Could Love

Alyne Rever entertains on the baritone sax – in costume, of course – during a pre-Halloween concert in Varner Recital Hall. The Department of Music, Theatre and Dance sponsored the event as part of its Concerts-for-Youth Series.

Nursing is 1 of 4 Schools to Get Education Grant

The U.S. Department of Health and Human Services Bureau of Health Professions has made a \$362,139 grant to support Oakland's nurse anesthetist education programs.

The program helps fill a national shortage and is the only one of its kind within a Michigan school of nursing. The program is offered in collaboration with William Beaumont Hospital in Royal Oak.

Penny Cass, interim dean of nursing, is principal investigator on the three-year grant that will provide clinical and other support services.

The interim dean says "OU and William Beaumont Hospital are proud to be one of four applicants selected for this award nationally. We could not offer such a program or compete for such an award without the collaboration of the staff and use of the state-of-the-art facilities at Beaumont."

Cass says the "28-month master's program will help ease the critical shortfall of Certified Registered Nurse Anesthetists, which is currently estimated at 100 persons in Michigan alone."

Twelve students are enrolled in the program and another 12 will be accepted in the second cycle starting in January.

"Graduates will provide one-to-one care to patients before, during and after operative experiences by delivering anesthesia for surgical and obstetric procedures."

A 1990 study by the Department of Health and Human Services in collaboration with the Division of Nursing projected the need

for a 49 percent increase in the number of CRNAs by 2010. Cass says CRNAs are the sole providers of anesthesia in 33 percent of all U.S. hospitals. In another 30 percent of those facilities, they serve as assistant to a physician anesthesiologist.▼

15 Named to Presidential Search Panel

Board of Trustees Chairman Howard F. Sims has named the 15-member Presidential Search Committee that will assist the board in seeking Joseph E. Champagne's replacement.

The committee held its first planning meeting with the consultant from the presidential search firm on October 29.

A national advertisement seeking presidential candidates will run in the *Chronicle of Higher Education* on November 6. The committee is to identify three to five candidates for the presidency for the Board of Trustees by January 27. The timetable calls for the board to name a president on March 11.

The committee is composed of the following persons:

- Faculty – Jane Briggs-Bunting, journalism; Robert Edgerton, engineering; Vincent Khapoya, political science; and Michael Sevilla, chemistry.
- Board of Trustees – Larry Chunovich, committee chairperson; and Andrea L. Fisher, Stephan Sharf and James Sharp.
- Administrative-professional staff – Peggy Cooke, internal audit; and Ron Kevern, student affairs.
- Alumni – Timothy Broderick, vice president, Providence Hospital and Medical Centers.
- Oakland University Foundation – John Mills, attorney, O'Neill, Shannon, Mills & Shehan. Mills is also an alumnus.
- Students – Todd Cook, political science major and University Student Congress member.
- Deans and academic administrators – George Stevens, dean, School of Business Administration.
- Nonfaculty unions – Iola Adams, linguistics.▼

Prof to Speak on Irish Revolutionary Myth

Assistant Professor Seán Farrell Moran will present a free public lecture November 6 to explore the Irish revolutionary myth that portrays violence and death as acts of national redemption.

Moran will speak at 7:30 p.m. in Oakland Center Gold Room B. The lecture, *The Psychohistorical Dimensions of Irish Terrorism: The Eroticization of Political Violence*, is offered by the Department of History.

Moran traces the psychodynamics out of which the Irish revolutionary tradition has "raised violence to the level of a myth reaffirmed by the blood-sacrifice of Irish patriots."

The history professor claims "the myth upholds the idea that violence and death are acts of national redemption through a process whereby death has been eroticized. Since 1916, Irish Republicanism has seen self-immolation not only as the demonstration of the moral legitimation of its cause, but also as something to be desired as a form of individual redemption which is both personal and cosmic."

The speaker is the author of *Patrick Pearse and the Politics of National Redemption: The Mind of the Easter Rising, 1916*. He has also written numerous works addressing the nature and historical origins of Irish nationalism.▼

Faculty Study Race, Gender Issues in Workshop

Changing a curriculum to make it more sensitive to issues regarding race and gender requires a commitment to take a leadership role in getting it done.

Elizabeth Higginbotham of Memphis State University told participants at a day-long conference on race, class and gender that they can't wait for someone to hand them the syllabus.

The conference for faculty members was intended to increase awareness of course content and methods of teaching as they relate to women and persons of color. Workshops were held to get faculty members thinking of the issues and to share ideas across disciplines.

Higginbotham and Lynn Weber Cannon, also of Memphis State, conducted the workshops. Higginbotham said a reason academia is slow to change is that faculty

members often wait for someone else to provide the teaching model. In this case, she said, all efforts are pioneering.

"There are a lot of opportunities, even on campuses like your own," Higginbotham said, noting Oakland's suburban nature.

Higginbotham said students demand a diverse curriculum today. A component of all courses, she said, should be a respect for diversity.

If we don't master the information, we undermine the objectives that we profess.

— Elizabeth Higginbotham

"It is incumbent upon us as faculty to keep abreast of our field and to provide students with the latest developments in scholarship," she said.

A problem within university courses is that they relate developments from a male perspective, particularly a white male's. Discoveries by blacks or Asians may be mentioned, but as a footnote. Curriculum restructuring, she said, needs to address achievements by women and minorities, but with respect for accomplishments on their own merits. Too often, she said, women and minorities are presented in terms of how they affect white males.

Revamping a curriculum effectively also requires that the faculty learn about developments in other disciplines, Higginbotham said. "If we don't master the information, we undermine the objectives that we profess," she said.

Minorities and women's issues must be regarded as complex entities in their own right, Higginbotham said, and not as subsets of a larger male group that is considered the norm.▼



Lettie Alston of the Department of Music, Theatre and Dance was among the workshop participants.

Quiz Time: How Do You See the Issues?

Participants at the workshop on Integrating Race, Class and Gender into the Curriculum considered the following 10 questions as a warmup exercise. Answer true or false.

1. Infusion of scholarship on women throughout the university is more likely to occur in institutions which do not have women's studies programs to isolate women scholars.
2. Students are more likely to retain lessons learned through active learning assignments than from listening to lectures.
3. Between 1880 and 1900, Chinese immigration into the United States nearly doubled.
4. An inclusive course on American society would use race as a dimension of analysis to understand the experiences of all people.
5. Students find learning the specific

ways that groups that faced discrimination resisted oppression to be depressing.

6. The Bill of Rights extended citizenship rights to all people born in the United States.

7. An examination of racial privilege is often missing in the traditional analysis of racial ethnic groups in the United States.

8. An inclusive course on the American family would be one where the experiences of African American families were contrasted with those of white families.

9. The most effective way to increase the numbers of women in the natural sciences is to expose girls early to the traditional ways of doing science.

10. A coherent major would acquaint students with the theory and research methods of the field in introductory level courses.

Answers: 1-F; 2-T; 3-F; 4-T; 5-F; 6-F; 7-T; 8-F; 9-F; 10-T.



Heat May be Back on Next Week

Water Line Breaks Leave Budget Out to Dry

Two breaks in a high-temperature water line leading into Wilson Hall have disrupted more than the comfort of students and employees.

The breaks have also depleted a large share of the catastrophe fund within the Campus Facilities and Operations budget. The fund, so named for unexpected emergencies, got a workout after the water line troubles began October 21. Repairs are expected to cost anywhere from \$35,000 to \$50,000.

The first problem was a break in the pipe below the Wilson Boulevard median. When the six-inch line broke, hot water burst through the surface, creating a geyser of steam and mud. It also cut off the source of heat for Wilson Hall, Meadow Brook Theatre and Graham Health Center.

Workers from the university and outside

contractors located the break and repaired it, but when the water was turned on again, a second break cropped up near the south side of Wilson Hall.

Several days of digging were needed to get to the pipe. Work was further complicated late in the week when heavy rain slowed repair work.

Grover Tigie, central heating superintendent, said workers discovered the underground lines were in bad shape. The work actually involves two lines: a six-inch high-temperature line and a six-inch cold water return line. Both are encased in a 24-inch corrugated steel pipe.

Tigie said the problems started when leaks in the 24-inch shield developed, allowing groundwater to come into contact with the hot-water lines. The hot-water lines corroded and burst.

So Much for the Garden

Workers digging for a water pipe outside Wilson Hall had to contend with tight quarters. Backhoe operators searching for a break beneath a flower bed had the building itself, the covered porch and a concrete retaining wall below the surface to contend with. Another break beneath the Wilson Boulevard median has also been repaired.

Middle East Conflict is Focus of Discussion

The former economics editor of the *Jerusalem Post* will discuss whether there is a solution to the Arab-Israeli conflict during a free talk on campus.

Joel Bainerman, an advocate for a free-market economy in Israel, will speak at noon November 11 in the Oakland Center Fireside Lounge. His opinions and analyses have appeared in the *Wall Street Journal*, *The Christian Science Monitor*, *The Financial Times* and other publications.

Bainerman's visit is sponsored by the Jewish Students Organization/Hillel, the Department of Economics, CIPO, Young Republicans, Honors College, Democrats at OU, Department of Sociology and Anthropology, Department of Political Science and Phi Sigma Alpha. Call 370-4257 or 443-0424 for details.▼

Search Begins for Nursing Dean

A committee has begun the search for a dean of the School of Nursing.

Anne Tripp, history, chairs the committee. Other members are Frances Jackson, Patricia Ketcham, Diane Wilson and Gary Moore, all from nursing, and George Coon, education and human services.

The committee is charged with finding a replacement for Andrea Lindell, who resigned to take a position in Cincinnati. Penny Cass now serves as interim dean.

Consideration of applications will begin January 3.▼

The Campus Register

Faculty and Staff Notes

Items about professional activities or honors may be sent to the News Service, 104 NFH. They appear as space permits.

Presentations

SEAN FARRELL MORAN, history, presented *My Sons Were Faithful and They Fought: 'Patrick Pearse and the Easter Rising'* at the Sesquicentennial Irish Meeting on Jonathan Swift and Irish Studies at the University of Notre Dame.

ANAHD KULWICKI, nursing, presented *Cardiovascular Risk in Arab Americans* at the 21st annual Michigan Cardiovascular Research Forum in Ann Arbor. Copresenter was VIRGINIA RICE. Kulwicki was a panelist on *Critical Issues in Urban and Rural Transcultural Nursing Care* at the 17th annual Transcultural Nursing Society Conference. She led two discussions about Arab American culture and how to tailor wellness services to its needs at the Worksite Wellness Meets Cultural Diversity Conference in Troy.

BRIAN A. CONNERY, English, presented a paper, *'I Leave You to Guess It': Age, the Body, and Swift's Hints to 'Careless Posterity'* at the Sesquicentennial Swift and Irish Studies Conference at the University of Notre Dame.

SUBRAMANIAM GANESAN, engineering and computer science, presented a paper, *TMS320 Digital Signal Microprocessors for Automotive Applications* at the TMS320 Educators Conference in Houston.

DEAN PURCELL, psychology, will present *The Face Detection Effect: Sensory and Cognitive Factors* at the 32nd annual meeting of the Psychonomics Society. Coauthors were A.L. STEWART and E.J. HIRIS, who was an undergraduate student at the time the paper was prepared.

Publications

SUBRAMANIAM GANESAN, engineering and computer science, J. HEMINGWAY and R. HADDAD wrote *Standalone Modem Design Using the Am79C12* for the March issue of *Microprocessors and Microsystems Journal*.

ROBERT J. GOLDSTEIN, political science, has received a book contract from Syracuse University Press for a collection of documents concerning flag desecration. He is also writing a narrative book about the controversy under contract to Kent University Press.

Honors

GEORGE E. STEVENS, business administration, has been inducted into the Quill, an organization at the University of Central Florida that honors authors among its faculty. Stevens, a former administrator at UCF, was cited for his book, *Cases and Exercises in Human Resource Management*.

JON YATES, biological sciences, and LAWRENCE LILLISTON, psychology, were inducted into honorary membership in the Golden Key National Honor Society in ceremonies on campus. KEITH R. KLECKNER, senior vice president for academic affairs and provost, gave the keynote address.

ANAHD KULWICKI, nursing, has been elected vice president of the Coalition for Diabetes Education and Minority Health.

Funding Opportunities

The Office of Research and Academic Development has details about sources of external funding. Stop by 370 SFH or call 370-3222. Unless noted, proposal due dates are unknown.

Rockefeller Foundation Humanities Fellowships

Fellowships are meant to serve scholars who are testing disciplinary boundaries or moving into newer fields of inquiry within the humanities. The majority of the fellow's time is spent pursuing his or her own research toward publication. The residency also involves participation in seminars, conferences and other activities within the host program.

Theorizing Female Diversity: The Social Construction of Difference — Proposals are encouraged from junior and senior scholars with a theoretical orientation toward a richer understanding of the multiple dimensions of women's experience along racial, ethnic, class and other lines. This residence program is offered by the Center for Advanced Feminist Studies at the University of Minnesota. January 15 deadline.

Environmental Issues and the Humanities — Offered by the Hall Center for the Humanities at the University of Kansas, this fellowship program promotes historical and humanistic perspectives on environmental issues in industrialized and developing nations. The university libraries have substan-

tial holdings in environmental history, literature, geography, natural resources, art history, science and technology. January 15 deadline.

Critical and Theoretical Models for the Study and Teaching of Afro-American, African and Caribbean Literature and Cultures — This program is offered by the Center for the Study of Black Literature and Culture at the University of Pennsylvania. Its focus will be the study of relationships between Afro-American and cultural studies models of analysis, black independent film workshops and lectures and seminars devoted to the study of postcolonial discourse. March 15 deadline.

Influences on Culture and Politics in Asia — Initial emphasis will be on China and India. Applications are invited from scholars who are interested in the comparative analysis of communication, the relations between media, literature and politics in Asia, transnational "cultural flows" and their effect on cultural pluralism in Asia, and the effect of developing cultural pluralisms on politics in Asia. The program is offered by the Center for Psychosocial Studies in conjunction with the Center for East Asian Studies at the University of Chicago. January 30 deadline.

New Faces

Recent additions to the staff include the following persons:

- Catherine Bercel of Sterling Heights, a teacher at the Child Care Center.
- Lillian Frazier of Detroit, a programmer analyst in the Office of Computer Services.
- Jeri Kring of Rochester Hills, coordinator of special and external projects in the College of Arts and Sciences.
- Joanne Orfin of Rochester Hills, an instructional aide at the Child Care Center.
- Ann Arlyle Serra of Auburn Hills, assistant women's basketball coach in athletics.

Jobs

Information about employment opportunities is available by calling 370-4500.

- Coordinator for intercultural programs, AP-6, CIPO.
- Director, AP-16, Campus Facilities and Operations, plant engineering and construction management.

- Associate director, AP-11, Office of Financial Aid.
- Laboratory research technician, C-9, Eye Research Institute.

Reaching Us ...

The *Oakland University News* is published every other Friday during the fall and winter semesters and monthly from June-August. Editorial offices are at the News Service, 104 North Foundation Hall, Oakland University, Rochester, MI 48309-4401. Copy deadline is noon Friday of the week preceding the publication date.

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Angel MacLean appears in *'Waiting for the Parade'* at the Varner Studio Theatre. The production is sponsored by the Department of Music, Theatre and Dance.

Quote

"Mystics always hope that science will some day overtake them."

— Booth Tarkington

Bits
& Pieces

Go Inside a Disney Film

A presentation of *Beauty and the Beast: A Behind the Scenes Look* will show what's involved in the making a feature-length film.

The free presentation will be at 2:30 p.m. November 5 in the Oakland Center Gold Rooms. Sponsors are CIPO, the Student Program Board and Walt Disney Pictures.

The presentation will cover the history of Disney animation, using slides from several classic films. It will trace *Beauty and the Beast* through the various production stages, from pencil sketches to completion. For details, call 370-2020.

Become a Nonsmoker — Again

Another three-week smoking cessation clinic is being offered by the Meadow Brook Health Enhancement Institute.

The *Cease Using Tobacco* program emphasizes group support, behavior modification, stress management and relapse prevention.

The first session will be at 6 p.m. November 7 at the institute. Fees are \$50 for institute members and \$60 for others. To register, call Terry Dibble at 370-4524.

United Way Drive is On

Rikki Schwartz, environmental health and safety coordinator and chairperson of the campus United Way fund drive, says the campaign is nearing the end.

Funds from the drive help 150 health and human services agencies in Oakland, Macomb and Wayne counties. United Way literature has been distributed to all deans, directors and department heads; pledge cards for employees will be out next week.

If you have questions, call Schwartz at 370-4196.

MOT Flex Tickets Available

Michigan Opera Theatre offers OU employees a flex ticket for the 1991-92 season at an education and group discount.

Pat Nicosia, budget director and ticket maven, says the flex ticket allows you to attend any three productions at any performance you choose, and it guarantees lodge or better seating. This year's productions are *Candide* and *The Mikado* this fall at the Fisher Theatre, and *King Roger*, *Samson and Delilah* and *Lucia di Lammermoor* next spring at the Masonic Temple. Call him at 370-2370 for prices.

In addition, excellent seats for the 7:30 p.m. January 5 extended run of *Les Miserables* at the Fisher are available. Tickets are \$31.50 lower balcony and \$16 for upper.

Make Your Deposit by EFT

Payroll Manager Barbara Gaves reminds employees who receive a monthly paycheck that they can have it deposited electronically into checking or savings accounts.

All area financial institutions, the OU Branch of the MSU Federal Credit Union and Merrill Lynch participate. The program eliminates the possibility of a check being lost or stolen.

Enrollment forms are available at 114 NFH. The deadline for enrolling or making changes is the 15th of each month, except in November and December when special deadlines are posted.

Monthly paid employees whose last name begins with A-K may call Marlene York, 370-3472, and L-Z folks may call Linda VanNatta, 370-3473.

Calendars Help Pass the Time

Calendars depicting campus scenes shot by university photographer Rick Smith are now on sale at the Bookcenter.

The wall calendars, selling for \$5.95, feature a selection of Smith's black-and-white photos. Each month highlights a different campus scene. The calendars were produced by the Publications Department at the request of the Office of Student Life. Departments interested in purchasing the calendars in quantity, at \$5 each for use as promotional items, should call 370-3352.

Inside
a Chemist's
Tiny WorldTadeusz Malinski Finds
Elements Measuring
in Trillionths of a Gram

Discoveries in the growing field of bioelectrochemistry and bioelectronics that could revolutionize everything from medical diagnoses to the car in your garage are coming out of Hannah Hall.

Associate Professor Tadeusz Malinski of the Department of Chemistry is among the pioneers in bioelectronics, a field that merges the wizardry of electronics with the natural elements of biological sciences.

Malinski's development is a microscopic electrode that can detect trace concentrations of elements or molecules within a single biological cell. The carbon fiber electrode measures less than one micrometer in diameter (one-millionth of a meter) and is covered with several layers of a novel sensing material — polymeric porphyrin. Malinski's electrode is under patent review by the National Cancer Institute in Frederick, Md.

The electrode is significant in that researchers can now determine whether even trillionths of a gram of molecules are present in an individual cell. It is done by measuring the electrical current flowing through the electrode.

"The material of an electrode is designed to give current response for specific metals or molecules. The applications would be the study of hormone action, like insulin, or drug actions in the cell," Malinski says.

An area in which the electrode may become extremely useful is in finding the presence of nitric oxide. Scientists have only recently discovered that nitric oxide regulates many bodily functions. Among its functions, it mediates the control of blood pressure, helps the immune system kill foreign substances, stops cancer cells from dividing and transmits signals between brain cells.

Malinski says nitric oxide is difficult to detect, and had escaped notice for years, because its life span is only five seconds after it appears. The electrode Malinski developed could detect the gas, he says.

Sociologist Finds Blacks
See Suicide a 'White Thing'

Strong family and religious ties contribute to low rates of suicides among blacks, a university researcher has found.

The rates are especially low when compared to those of whites, says Kevin Early, an assistant professor in the Department of Sociology and Anthropology. Considering all age groups, the suicide rate among whites is approximately 2.5 times greater than that among blacks, he has found.

Early interviewed 30 church pastors and 220 congregation members for his ethnographic study. All who were interviewed condemned suicide as unforgivable sin and a denial of what it means to be black. Early says a statement that came up repeatedly during his research interviews was that suicide is "a white thing."

Early conducted most of his research in Florida while working on his doctorate at the University of Florida. The dissertation will be published next September by Greenwood Press under the title *'It's a White Thing': Religion and Suicide in the African-American Community*. Although the research was conducted in the deep South, Early says he believes the views held by blacks there would be consistent in all regions.

Early's work breaks new ground, in that studies of suicides concentrate primarily on whites. "When I started to read about suicide in the literature, I didn't come across anything talking about black suicides. I found official data, but no one could explain to me why suicide was so low."

The untapped research area surprised Early. "Given the amount of political, economic and social deprivation that blacks experience, it would appear that blacks would have a high rate of suicide, but they don't."

Early says he came up with a "buffering



Probing Within Cells

Tadeusz Malinski of the Department of Chemistry has created an electrode small enough to enter individual cells and be used to find trace concentrations of elements or molecules within a cell. His discovery will be used in the medical field to help doctors diagnose problems.

Malinski adds that since nitric oxide isn't present in all cells, finding it where it shouldn't be would be one way in which doctors could help diagnose a patient's condition.

"There is no other direct way to detect nitric oxide in the cell," Malinski adds. Present detection depends on indirect methods, particularly finding the byproducts of nitric oxide's actions.

In addition to his work with microelectrodes, Malinski and his associates are working on the synthesis and application of conductive polymeric porphyrins as a solid electrolyte for batteries and as a catalyst for fuel cells.

Malinski says researchers throughout the world are working to make so-called "plastic batteries" — named for the organic polymeric solid-state medium which replaces metal electrodes or liquid electrolyte, like sulfuric acid in traditional batteries. The goal is to increase the battery's efficiency.

"One of the advantages of materials over metals is they are not as heavy," he says. "The main obstacle in the development of the battery for the electric car is weight."

If efficient plastic batteries are created,

some day car batteries could weigh a fraction of present lead-acid batteries.

New materials developed in Malinski's lab consist of metalloporphyrin, a fragment of chlorophyll. Malinski polymerizes the porphyrins to make the conductive materials. Research continues to find the best conductor that mimics metal.

"We polymerize these porphyrins and make a very highly conductive material that approaches the conductivity that we observe in several metals," Malinski says.

"We're looking for materials that have high conductivity but are not a metal," he says. "This kind of material could also replace metal electrodes in fuel cells and devices for energy conversion and storage."

Malinski says a benefit of the new conductive polymeric materials is durability. "They can be put in a very severe environment and not deteriorate," he adds. "Those materials have a very practical application."

Malinski says bioelectronics will also lead to advances in computer technology. Fast switches, chemical diodes and amplifiers may soon be made from organic conductive and semiconductive materials. ▼

— By Jay Jackson



Kevin Early

the elderly, however. Among white males ages 75-84, the suicide rate was 61.5 per 100,000 in 1988, the latest year figures are available. The corresponding rate for black males was 12.6 per 100,000.

Early says the importance of family plays a role, too. While whites may institutionalize the elderly in nursing homes or they may end their lives living alone, blacks will draw the family together. The extended family with aunts, uncles and grandparents living with a family is not uncommon, he says. "Blacks are not warehoused, and they're more integrated into their families," Early says.

"As white males reach the retirement age, their value diminishes in society. They tend to be warehoused after they reach a certain age. There's a tremendous loss of self-esteem and self-confidence. For black males, suicide is a youthful phenomena that peaks between 15 and 34, and then it drops."

Among females, the rates are sharply lower, but again blacks have lower rates than whites. ▼

Christie Murder-Mystery Keeps Audiences Guessing

Agatha Christie's tale of multiple murders at a macabre house party is at Meadow Brook Theatre this month.

Ten Little Indians began as a serial in the *Saturday Evening Post* under the title, *And Then There Were None*. It has been adapted for the screen three times, most notably in 1945 with Walter Huston, Sir Aubrey Smith and Judith Anderson. It has also been performed under the title, *The Nursery Rhyme Murders*. The series of homicides in *Ten Little Indians* faithfully follows those in the Mother Goose rhyme.

"Ten little Indian boys going out to dine ... one choked his little self and then there were nine." The first victim, whose reckless driving

killed two youngsters, chokes to death on a cyanide-laced drink.

"Nine little Indian boys sat up very late ... One overslept himself and then there were eight." The second victim, a servant who had killed her employer for a legacy, dies from a barbiturate in her brandy.

While the nursery rhyme doesn't help the audience guess the killer's identity, it does tell how each murder will be carried out.

Meadow Brook Artistic Director Terence Kilburn directs the play. He has cast Maureen McDevitt as Vera Claythorne, an attractive secretary facing retribution for a careless act that resulted in a death. She has appeared

at the Attic and Hilberry theatres in Detroit, as well as at Meadow Brook.

Appearing as Philip Lombard, an Army officer who is made to answer for deserting his troops under fire, is Geoffrey Beauchamp. He last appeared at Meadow Brook in *Dial M for Murder*, and returns following a successful run as LeBrea in *Cyrano* at the Repertory Theatre of St. Louis.

Meadow Brook favorite Eric Tavares comes from the Asolo Theatre in Sarasota, Fla., to perform as William Blore, a private detective whose "evidence" sent an innocent man to his death. Tavares last appeared at Meadow Brook as Bottom in *A Midsummer Night's Dream*.

Wil Love portrays Sir Lawrence Wargrave, a judge who sentenced an innocent man to die. Also appearing are Carl Schurr, Jillian Lindig, Phillip Locker, Richard A. Schrot, Paul Hopper and Sue Kenny.

For performance times and ticket information, call 370-3300. *Ten Little Indians* is presented with the support of Ford Motor Co.▼

'Raisin in the Sun' Explores Family

A Raisin in the Sun, one of Broadway's longest running plays concerning the black experience, comes to the university for five performances.

The Department of Music, Theatre and Dance will present the play from November 13-17 in the Varner Studio Theatre.

Set in the southside Chicago ghetto during the 1950s, *Raisin* revolves around the divergent dreams of and conflicts within three generations of the Younger family. Multiple themes of black identity, pride, quest for liberation, and the family's strength culminate in the Younger's refusal to sacrifice human dignity to the demands of a money-driven, racist society.

Student Joe Bailey is directing the play. Cast members include senior Daphne Briggs, sophomore Cyrano L. Cleaves, senior Demeasa Heard and first-year student Ernest Smiles. Also cast is Faye Cobb, a special instructor in the physical therapy program.

Performances are at 8 p.m. Wednesday-Saturday and at 2 p.m. Sunday. Tickets are \$3 general admission, but are free for OU students.

For information, call 370-3013.▼

Watch Those Early Payroll Deadlines

Early deadlines are in effect for payroll forms for November and December because of the holidays.

Monthly (salary) payroll authorization forms must be in the Payroll Office by 5 p.m. November 8 for the November 27 pay date, and by 5 p.m. December 6 for the December 20 payroll.

Authorization forms and time sheets for student payrolls must be submitted by 10:30 a.m. November 4 for the November 8 payroll, November 18 for the November 22 payroll, December 2 for the December 6 payroll, December 16 for the December 20 payroll, and January 13 for the January 17 payroll.

Authorization forms and time sheets for the hourly payroll must be submitted by 10:30 a.m. November 11 for the November 15 payroll, November 25 for the November 27 payroll, December 9 for the December 13 payroll, and December 12 for the December 20 payroll.

The longevity payroll will be paid on November 27.

If you have any questions, call Barbara Gaves at 370-4380.▼



How Cool

The chemical spill wasn't real, but the cold water from the fire hose was. Alumna Pam Hausler volunteered as a victim to help emergency personnel from campus, Auburn Hills and Rochester Hills see how they would handle a crisis. Rescue workers responded as if several persons had been exposed to methyl alcohol, which can burn the skin and lungs. Crittenton Hospital also participated.

EPA Grant Aids in Study of Waste

Could the cure be worse than the disease? Two university scientists are looking at the answer as it relates to bioremediation (the use of existing or enhanced bacteria) to degrade PCB-contaminated waste.

Their question is what assurance is there that the contaminated site is really "clean" after bioremediation and ready for human habitation or other use. "Could the materials produced during the breakdown be more toxic for animals and humans than the original substance?" they ask.

The Environmental Protection Agency would like an answer, too, and has given grants totaling \$255,571 to principal investigators Satish K. Walia and Frank Butterworth of the Department of Biological Sciences.

The scientists were the first to recognize that "bioremediation of PCB contaminated waste provides no assurance that the metabolic intermediates will not be toxic" and they say "current knowledge of the genetic effect of PCBs and their metabolites is inconclusive."

Walia and Butterworth explain that PCBs are all not broken down cleanly into water, carbon dioxide and chlorine, and that little is known about the toxic potential of materials that may be created as these compounds are degraded.

Their goals are pre- and postremediation

assay tests that can determine if a contaminated site is "clean" after bioremediation. They say interest in use of bacteria on a contaminated site is spurred in large part by costs, being accomplished at one-tenth the price tag of removing the dirt for incineration.

Walia and Butterworth will use single-cell bacteria and the common fruit fly *Drosophila*, which mimics the human system, for assays that can evaluate the toxicity of chlorinated biphenyls and the intermediate compounds formed as they are broken down. The original substance and those formed during metabolism will be studied for toxicity including the potential to cause mutations.

A strong cause and effect relationship has already been established showing substances that cause mutations are also likely to cause cancer, the scientists say.

Another test will involve tadpoles to determine possible birth-defect-type damages that the PCBs or their intermediate products may cause on living systems.

Walia has received past support from the EPA for his pioneering work in discovering bacteria that can degrade PCBs and for discovering and cloning the enzymes that make the breakdown possible.▼

— By Jim Llewellyn

Events

NOVEMBER

Until November 24 — Play, *Ten Little Indians*, Meadow Brook Theatre. Times vary. Admission. Call 370-3300.

1 — Men's and women's swimming with Wright State University, 4 p.m., Lepley Sports Center. Call 370-3190.

1 and 3 — Film, *Terminator 2*, 7 and 9:30 p.m. Friday and 7 p.m. Sunday, 201 Dodge Hall. Admission. Call 370-4296.

1 and 3 — Play, *Waiting for the Parade*, Varner Studio Theatre. Times vary. Admission. Sponsored by the Department of Music, Theatre and Dance. Call 370-3013.

2 — Seminar, *Successful Job Hunt Strategies*, 9 a.m.-4 p.m., Oakland Center. Fee. Sponsored by Continuum Center. Call 370-3033.

2-3 — Play, *Biloxi Blues*, Varner Studio Theatre. Times vary. Admission. Sponsored by the Department of Music, Theatre and Dance. Call 370-3013.

4 — Sidelights lecture, *Ten Little Indians*, by Professor Emerita Gertrude White on the current Meadow Brook Theatre production, 6:30 p.m. dessert reception and 7-9 p.m. lecture. Admission. Sponsored by Division of Continuing Education. Call 370-3120.

5, 12 and 26 — Study meeting, OU Bible Staff, noon-1 p.m., Oakland Center Meadow Brook Room (5th), Room 129 (12th) and Room 128 (26th). Free. Call Victoria Blackmon, 370-3480.

5 — Presentation, *Beauty and the Beast: A Behind the Scenes Look*, 2:30 p.m., Oakland Center Gold Rooms A-C. Free. Sponsored by CIPO, Student Program Board and Walt Disney Pictures. Call 370-2020.

6 — Lecture, *China's Response to the Failure of Soviet Communism*, by John Marney, noon-1:30 p.m., Oakland Center Gold Rooms A-B. Free. Sponsored by Center for International Programs and Department of Modern Languages and Literatures. Call 370-2154 or 370-2060.

6 — Lecture, *The Psychohistorical Dimensions of Irish Terrorism: The Eroticization of Political Violence*, by Sean Farrell Moran, 7:30 p.m., Oakland Center Gold Room B. Free. Sponsored by Department of History. Call 370-3510.

6, 13, 20 — Perspectives on Art lectures, *Exploring Islamic Gardens, Islamic Architecture and Islamic Painting*, by Bonnie Abiko, 7-9 p.m., Meadow Brook Hall Carriage House. Admission. Sponsored by Division of Continuing Education. Call 370-3120.

6 — Men's swimming with the University of Michigan, 7 p.m., Lepley Sports Center. Call 370-3190.

7 — Discussion, *Interfaith Relations: Do Our Differences Make a Difference?* noon, Oakland Center Fireside Lounge. Sponsored by Jewish Students Organization/Hillel, United Ministries in Higher Education and Catholic Chaplaincy. Call 370-4257 or 443-0424.

7 — University Senate, 3:10 p.m., Oakland Center Oakland Room. Call 370-2190.

7 — Information seminar, *Cease Using Tobacco*, 6 p.m., Meadow Brook Health Enhancement Institute. Fee. Call 370-4524.

8 — Women's swimming with Cleveland State University, 7 p.m., Lepley Sports Center. Call 370-3190.

8-10 — CPA Weekend, all day, Oakland Center and Holiday Inn of Auburn Hills. Sponsored by Division of Continuing Education. Admission. Call 370-3120.

8 and 10 — Film, *Jungle Fever*, 7 and 9:30 p.m. Friday and 7 p.m. Sunday, 201 Dodge Hall. Admission. Call 370-4296.

9 — Men's soccer with University of Michigan club team, 7 p.m., Rochester High School. Call 370-3190.

11 — Workshop, *Helping Blended Families*, 9 a.m.-noon, Oakland Center. Fee. Sponsored by Continuum Center. Call 370-3033.

11 — Discussion, *Is There a Solution to the Arab-Israeli Conflict?* noon, Oakland Center Fireside Lounge. Sponsored by Jewish Students Organization/Hillel, Department of Economics, CIPO, Young Republicans, Honors College, Democrats at OU, Department of Sociology and Anthropology, Department of Political Science and Phi Sigma Alpha. Call 370-4257 or 443-0424.

13-17 — Play, *A Raisin in the Sun*, 8 p.m. Wednesday-Saturday and 2 p.m. Sunday, Varner Studio Theatre. Admission, except free for students. Sponsored by Department of Music, Theatre and Dance. Call 370-3013.

13 — Discussion, *Roots of Racism: Psychological Aspects*, noon, Oakland Center Fireside Lounge. Sponsored by Jewish Students Organization/Hillel, United Ministries in Higher Education, Catholic Chaplaincy, CIPO, Raices, Association of Black Students and SIC. Call 370-4257 or 443-0424.

13 — Seminar for administrative-professionals, *Empower Yourself for Greater Success*, 8 a.m.-noon, 126-127 Oakland Center. Fee. Sponsored by AP Assembly and Employee Relations Department. Call 370-3492.

14 — Discussion, *Everything You Always Wanted to Know About Judaism, Now You Can Ask*, noon, Oakland Center lower annex. Free. Sponsored by Jewish Students Organization/Hillel. Call 370-4257.

14 — Enigma of Genius lecture by Sheldon Appleton on Mao Zedong, 7-9 p.m., Meadow Brook Hall. Sponsored by Division of Continuing Education. Admission. Call 370-3120.

15 — Concert, *Brazilian Holiday*, by the Pontiac-Oakland Symphony, 8 p.m., Varner Recital Hall. Admission. Sponsored by the Department of Music, Theatre and Dance. Call 370-3013.

15 and 17 — Film, *What About Bob?*, 7 and 9:30 p.m. Friday and 7 p.m. Sunday, 201 Dodge Hall. Admission. Call 370-4296.

18 — Talk by Canadian consul Ann Thomas, 1:30 p.m., Oakland Center Lounge II. Reception to follow. Sponsored by Department of Sociology and Anthropology. Free. Call 370-2420.

19 — Oakland 100 basketball luncheon, noon, Oakland Center. Admission. Sponsored by Department of Athletics. Call 370-4005, 370-3195 or 370-3196.

19 — Oakland University Resource Sharing Program, *Celebrating 200 Years of the Bill of Rights: The First Amendment in Today's Society*, noon-1:30 p.m., Oakland Center Gold Rooms B-C. Free. Sponsored by AP Assembly and AP Association.

21 — Mainstage event with comedian Bertice Berry, 8 p.m., Oakland Center. Free. Call 370-4296.

22 — Lecture, *Medieval Modelbooks and Their Influence on Sculpture*, by Carl F. Barnes, Jr., 4 p.m., 124 Wilson Hall. Free. Sponsored by Department of Art and Art History and La Pittura. Call 370-3375.

22 — Concert, *A New Song and Dance*, with the Oakland Choral and University Chorus, 8 p.m., Varner Recital Hall. Admission. Sponsored by Department of Music, Theatre and Dance. Call 370-3013.

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