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Gilliam researches ozone pollution levels

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"High ozone concentrations begin early in the growing season, a time when deciduous leaves are well within the range considered potentially harmful to sensitive species such as black cherry, yelow poplar and white ash, all of which are economically and ecologically quite important in the area," said Gilliam.

Gilliam said relative to other forms of air pollution, such as trace metal and acidic deposition, ozone has been cited as perhaps the most predominant for its extensive impacts on United States. Ozone reduces photosynthesis and growth, alters carbon allocation and increases susceptibility of trees to pests and diseases. He said the long-term effects of ozone on our forests could be devastating.

"Ozone can damage our crops as well as our forests," noted Gilliam. "As a highly oxidizing gas, ozone can destroy leaf tissue and by the same token can be damaging to humans if inhaled in high concentrations."

The Environmental Protection Agency estimates that human health is threatened when ozone is at a level of 120 parts-per-billion. Plants can be more sensitive at lower levels. Ozone at 80 parts-per-billion can cause problems in plants. For that reason Gilliam based the study on how often the five regions had concentration of at least 80 parts-per-billion. Over the three years from 1987 through 1989 Greenhrier County had the most frequent periods of ozone higher than that level.

Gilliam said the study was not designed to examine the effects of ozone on plants or humans or offer remedies to ozone pollution but was intended merely to measure the amounts of ozone present at the five sites.

From the study, however, he said the state appears to have concentrations of ozone high enough to cause problems.

"I think we need to realize that we have a situation in West Virginia that needs to be studied. I'm not saying it's an emergency and all of the forests are going to die," Gilliam said. "The point of our research was to see if West Virginia has a potential problem and document the data. I believe we most certainly do have the potential for problems.

"I'm concerned that this situation doesn't receive enough public attention. People often are surprised to learn that there is such a thing as ozone pollution. I think the people in areas such as Greenhrier County need to know that they might have a pollution problem even though it is not produced in Greenhrier County. I think the people of West Virginia need to know that ozone pollution might have a detrimental impact on their forests."

What can be done to reduce ozone pollution and its damage? "We need the national organizations, the chairs of departments of internal medicine. MUFSON, the founding chair of Marshall's Department of Medicine, assumed office July 1. His duties include planning the organization's winter meeting, usually held in March."

Dr. LINDA M. SAVORY of the Marshall University School of Medicine has been elected president of the Southern Group on Educational Affairs in the American College of Medical Colleges. She currently is vice-president, and will assume the presidency in November. SAVORY, a professor of family practice, also has been elected secretary of the West Virginia Chapter of the American Academy of Family Physicians.

Dr. LESLEI PETTIES, associate professor in the Department of Music, attended the Music Teachers' Association of California annual convention held June 30-July 3 in San Francisco. She presented a lecture on "The Trials and Travails of Traveling Virtuosi." Her presentation discussed the unique challenges encountered by touring concert artists in late 19th century America.

THOMAS A. LOVINS, director of recreational sports and fitness activities, attended the summer meetings of the Executive Committee of the National Intramural-Recreational Sports Association held July 12-16 at the University of Florida. LOVINS, vice president of Region II, was appointed to a task force that will review the association's mission statement and new mission.

Dr. JANE U. EDWARDS, associate professor of dietetics in the Family and Consumer Sciences Program, attended the annual meeting of the Society for Nutrition Education held July 15-19 in Washington, D.C. She presented a paper titled "Evaluation of food frequency forms (fat intake) for use in the medical nutrition therapy of hypercholesterolemia."
Badenhausen appointed Honors Council chair

Dr. Richard J. Badenhausen, assistant professor of English, has been named chair of the Marshall University Honors Council, according to Martha Woodward, executive director of the university's Center for Academic Excellence.

Since joining the Marshall faculty in 1990, Badenhausen has been active in several university organizations including the English Department's Curricula Committee, Writing Committee, Contemporary Literature Junior Faculty Search Committee, Student Concerns Committee and Dinkins Scholar Committee.

Cancer institute funded

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and the architects are beginning to shape the facility and its activities.

James Edwards' gift will bring lasting benefits to his home community, said Linda Wichman-Hager, chair of the Cabell Huntington Hospital Board of Directors.

"Mr. Edwards' gift reflects a degree of community-spirituedness that is simply extraordinary," she said. "His generosity will change the lives of thousands of people in the years to come.

The West Virginia Cancer Registry notes that cancer is the second-leading cause of death in the state. More than 4,700 West Virginians died of cancer in 1993, the latest year for which statistics are available. West Virginia is among the national leaders in cancer deaths, ranking 10th for women, 14th for men.

The Edwards project represents the next logical step for the region, which already has seen major strides in cancer prevention, diagnosis and treatment, and strengthens Huntington's position as a medical referral center for the region.

Van Horn to lead COFA

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of Hamburg, Germany. He has received various prizes for his work which is included in the collections of universities and museums. His works also are in numerous private collections in the United States and Europe.

He has written papers for professional publications and journals and served as a discussant, reviewer and juror at many art and music exhibitions.

Van Horn has been active in a number of community and professional organizations including the Council of Colleges of Arts and Sciences, the Southwestern Art Conference, the Association of American Colleges and Universities, the American Association for Higher Education and Phi Kappa Phi honor society.

"We are fortunate to be able to attract a person of Van Horn's abilities to the Marshall campus," said Gilley. "He has a wealth of experience in the development and administration of major university programs. He is also a talented artist whose works appear in private and public collections. I believe this background gives him the perspective necessary to effectively deal with the often unique issues that come up in a fine arts setting.

Fellowships available

The American Council of Learned Societies has announced 1995-96 fellowship and grant competitions for junior faculty, according to Dr. Leonard Deutsch, dean of the Marshall University College of Education.

Fellowships are available for postdoctoral research in the humanities. Travel grants are available for international meetings abroad. Fellowships are available for Chinese scholars, East Asia scholars, international exchange of scholars and social science research. A dissertation fellowship also is available in American labor history.

To obtain further details contact the Graduate School Office, 696-6606.

Dissertation defense set

Dan Martin, a candidate for the Marshall University-West Virginia University doctoral degree in educational administration, will defend his dissertation Tuesday, Aug. 1, at 11 a.m. in Jenkins Hall Room 219 (Dean's Conference Room).

Observers are welcome to attend but seating will be limited, according to Dr. Aimee Howley, chair of Martin's dissertation committee.

Martin conducted a research study titled "Drug Testing and Education Programs in West Virginia School Policy Development and the Involvement of Student-Athletes."

United Way drive begins

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Welch urges everyone to contribute to the United Way campaign with no matter how small a donation. "It is important that you share those that are less fortunate than yourself," she said.

United Way funds can be arranged for people who would like to see the United Way agencies at work. To obtain further details about field trips contact Robin Wilson, 696-5272.

Roscoe Hale Jr. selected interim dean of COE

Dr. Roscoe Hale Jr., professor and chair of the Division of Teacher Education at Marshall University, has been appointed interim dean of the College of Education, according to MU President J. Wade Gilley.

Gilley said a search is being conducted to select a permanent dean. Dr. Gilley previously announced his resignation as dean of the College of Education.

Vickers will become a distinguished professor of family and consumer sciences at Marshall, teaching six hours of courses per semester and conducting consumer research.

Gilley research shows ozone pollution

You can't escape the damaging effects of ozone pollution simply by moving to a sparsely populated rural area, according to a study by Dr. Frank S. Gilliam, associate professor of biological sciences at Marshall University, and Nicole L. Turrill who recently received her master's degree in plant ecology from Marshall.

The three-year study of five West Virginia counties shows that ozone pollution levels often were higher in sparsely populated Greenbrier County than more urban counties such as Cabell and Kanawha. The study focused on data from 1987 through 1989 in Cabell, Kanawha, Wood, Greenbrier and Ohio counties but has implications for the entire state.

Ozone pollution should not be confused with the much-publicized thinning ozone layer. Gilliam said the two are entirely different systems, although both can have serious environmental impacts.

In the low levels of the atmosphere, ozone pollution is created when oxides of nitrogen and other pollutants from automobiles, other industries and certain ointmants are released into the air. This pollution is connected with the formation of "secondary" pollutants, such as nitric acid, that can be trapped in the lower levels of the atmosphere and cause damage to animal and plant life but plants may be affected more than animals.

Gilliam research shows ozone pollution

"As we've seen in the ozone layer studies, there are fewer studies done in West Virginia. He wanted to produce a study that would help us understand ozone pollution as other more industrialized counties do but has not been done in West Virginia," said Gilliam.

"Several studies have been done in other areas and other states but few have been done in West Virginia. We wanted to produce a study for West Virginia Counties because it could be used by scientists and researchers interested in ozone pollution and effects.

This study written by Gilliam and Turrill has been accepted for publication in the Journal of the Air & Waste Management Association.

As a result of the research, Gilliam concluded that the levels of ozone pollution present in West Virginia would have significant implications for the higher elevation hardwood forests that dominate rural areas such as Greenbrier County.

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Hale

London/Stratford tour sponsored by department

Marshall University's Department of Theatre and Dance is sponsoring a London/Stratford Theatre Tour at the end of the current fall semester.

The tour includes a trip to London Aug. 28 through Jan. 7, which will include six nights at the President Hotel in London with continental breakfasts, three nights at the Most House in Stratford-on-Avon with full English breakfasts and dinner, a stop at Blenheim Palace and a day tour of London and a seven-day regional travel card (bus/subway).

Participants will see three theatre productions, tour the Royal Shakespeare Company's Stratford-upon-Avon Theatre, the Royal Shakespeare Company, production studios, theatrical training studios, Shakespeare's birthplace and other sites, according to Mike Murphy, associate professor of theatre and director of Marshall University's Theatre Program.

Murphy said the itinerary has been designed to allow participants free time to travel on their own.

"This tour is for everyone but has been packaged and scheduled with Marshall faculty, staff and students in mind," said Murphy.

"The trip will take place over the Christmas break. Participants can celebrate the holidays with their families, go to London and return without missing the start of the spring semester.

The cost of the tour will be $2,199 per person which includes round-trip airfare from Cincinnati to London, service charges, taxes and hotel accommodations.

To obtain further details contact Murphy at Marshall University's Department of Theatre and Dance, 304-696-2517.